Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 1 of 75 Multi-Page Multi-Page

Jacques v. Keene

Barry Castleman, 1-3-02

1

IN THE UNITED STATES DISTRICT COURT

FOR THE NORTHERN DISTRICT OF ILLINOIS

Eastern Division

MRS. HAZEL JACQUES,

Special Administrator of :

the Estate of KENNETH

JACQUES, Deceased, : Case Number:

Plaintiff : 87C3964

vs.

KEENE CORPORATION, : Judge Holderman

et al.,

Defendants :

Deposition of BARRY IRA CASTLEMAN,

Sc.D., taken on Thursday, January 3, 2002 at

10:30 a.m., at the Law Offices of Tydings &

Rosenberg, LLP, 100 East Pratt Street, Baltimore,

Maryland, before Deborah C. D. Shumaker, Notary

Public.

Reported by: Deborah C. D. Shumaker

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 2 of 75 Multi-Page Multi-Page Barry Castleman, 1-3-02

:	Jacques v. Keene	Multi-	-Page Barry Castleman, 1-3-02
		Page 2	Page 4
ĺ	1 APPEARANCES:		1 previously?
٠,	2		2 A. The only thing I did was that I
i	3 ROBERT W. QUEENEY, ESQUIRE		3 suggested to Mr. Sweeney I mean Mr. Queeney,
	4 McBride Baker & Coles		4 I'm sorry, that I was curious to know about the
	5 500 West Madison Street		5 history of the ownership of Owens-Corning by
	6 40th Floor		6 Owens-Illinois in the period between 1938 and
	7 Chicago, Illinois 60661-2511		7 1977, and I didn't have complete information on
	8 (312) 715-5723		8 that, and so Mr. Queeney basically hired someone
	9 queeney@mbc.com		9 to look that up, and then Moody's Industrial
	10 On behalf of the Plaintiff		10 Directory.
ł	11		11 Q. Do you know who he hired?
	12		12 A. Yes. He hired Stephen Berger, the
	13 MATTHEW J. FISCHER, ESQUIRE		13 author of Chapter 6 of my book.
	14 Schiff Hardin & Waite		14 Q. Was that at your recommendation?
	15 6600 Sears Tower		15 A. Yes. I told him that Berger could do
	16 Chicago, Illinois 60606		16 it if he needed somebody and he couldn't find
	17 (312) 258-5591		17 anyone near hand, that he could hire Berger for
	18 mfischer@schiffhardin.com		18 that.
	On behalf of the Defendants		19 Q. You and Mr. Berger have a long
	20		20 association?
	21		21 A. Yes.
		Page 3	Page 5
	1 PROCEEDINGS	8	1 Q. Do you know how much Mr. Berger charged
	2 BARRY IRA CASTLEMAN, Sc.D.,		2 to do that work?
l	3 being first duly sworn to tell the truth, the		3 A. No. I think it was under a thousand
	4 whole truth, and nothing but the truth, testified		4 dollars.
	5 as follows:		5 Q. Other than making that recommendation,
-	6 EXAMINATION BY MR. FISCHER:		6 were you involved in that research at all?
	7 Q. Good morning, Dr. Castleman.		7 A. No.
	8 A. Good morning.		8 Q. Were any results provided to you?
	9 Q. My name is Matt Fischer. I represent		9 A. Yes.
	10 Owens-Illinois in this case, and we are here for		10 Q. What were the results?
- 1	11 your deposition today.		11 A. Well, the results show that, as I
- 1	Did you review any materials specific	į	12 recall, that Owens-Illinois continued to retain
i	13 to this case?	i	13 an ownership share in Owens-Corning of around 30
	14 A. No. I can't think of any documents I	1	14 percent until around 1970.
	15 reviewed specific to this case.		15 Q. 1970?
- 1	16 Q. Did you review any documents that you		16 A. Right.
- 1	17 may have reviewed previously in preparation for		17 Q. Prior to learning that in the course of
1	18 your deposition?		18 your retention in this case, Dr. Castleman, did
	19 A. No.		19 you know that to be true?
.	20 Q. Have you done anything in the course of		20 A. No.
	21 your work in this case that you had not done		21 Q. Did it come as a surprise to you?
L			

arry Castleman, 1-3-02

Multi-Page

Jacques v. Keene

Page 8

Page 9

Page 6

A. No. I mean, they started out owning

2 half the company in 1938, and I knew that it went

3 down to 3 percent in 1977 because I had Moody's

+ Directory on that in my files. I just didn't

5 know how to connect the dots.

Q. Were any other facts provided to you 7 with respect to any ownership Owens-Illinois may

3 have had of Owens-Corning in that intervening

period?

A. Nothing beyond what I've told you.

Q. So your knowledge about the ownership,

2 as I understand it, is that OI owned

3 approximately half of Owens-Corning in 1938?

A. Right.

Q. 30 percent in 1970 and 3 percent in

5 1977?

A. Right.

Q. And you don't have any information

) about any other time periods?

A. That's right. There may have been some

1 intervening time periods in the 1960s provided to

Q. When I asked you earlier, Doctor, if

2 you reviewed any documents in connection with

3 your retention, you said no.

A. Well, this was just a summary note. I

5 didn't actually look at the documentation on

6 which it was based, but I rely on Mr. Berger as

7 someone who can be relied upon for things like

8 that.

Q. Do you have whatever writing Mr. Berger

10 provided to you with you today?

A. No. It was a one-page summary with the

12 year and the percent ownership listed, abstracted

13 from Moody's Industrial Directory which I

14 understand you have been provided or at least you

15 had been provided by Plaintiff's counsel.

Q. You understand I have been provided

17 with what?

A. There are copies of the Moody's

19 Directories from which those figures were

20 extracted.

Q. Why do you understand that?

Page 7

A. I thought Mr. Queeney told me that.

2 Maybe I misunderstood. It's no big thing.

Q. You believe the information Mr. Berger

4 gave you was reliable, right?

A. Yes.

Q. And in fact, you relied on it?

A. Yes.

Q. Other than this work that was done with

9 regard to any ownership that OI may have had of

10 Owens-Corning shares, did you do any other work

11 in this case that you hadn't done previously?

A. No. 12

Q. Did you take it upon yourself to review 13

14 any documents for this case even though you may

15 have looked at them for the first time for some

16 other case?

A. I don't think so. 17

Q. So as I understand it, you have no 18

19 information about Mr. Jacques' medical history;

20 is that right?

21

A. That's right. I may have been told. I

1 me. I don't remember the details, but you're

2 basically talking about a monotone decreasing

3 functional relationship. You know, it goes down

with time. It doesn't go up and down.

Q. And you said based on those three

5 points of knowledge that you have? A. Those and the others that were provided

3 to me.

Q. What were the others that were provided) to you?

A. I don't remember the numbers.

Q. Did Mr. Berger provide you with any

3 other information?

A. No.

Q. Did he provide the information directly

5 to you or did he provide it through Mr. Queeney?

A. He provided it I think to both of us at 3 once.

Q. Did he provide that information to you) orally?

No. It was provided in writing.

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 4 of 75

Jacques v. Keene Multi-Page™ Barry Castleman, 1-3-02

Page 10

1 just don't recall exactly what the details were.

- 2 I know I have been told. I think that I was told
- 3 that -- I get cases confused. I'm not sure. I
- 4 think I may have been told that this was a lung
- 5 cancer case. Hold it! Whoa! Now it's coming
- 6 back to me. It is a relatively uncommon type of
- 7 cancer, but it is a cancer that has been
- 8 associated with asbestos by Dr. Kagan in his
- 9 studies.
- 10 Q. How do you spell Kagan?
- 11 A. K-A-G-A-N.
- 12 Q. Would it be fair to say, Doctor, as you
- 13 sit here today that you can't recall what disease
- 14 Mr. Jacques allegedly has?
- 15 A. I don't recall the exact details, the
- 16 pathology of the tumor, no.
- 17 Q. In fact, you don't know what organ the
- 18 tumor arose in?
- 19 A. No.
- 20 Q. You also then have no information about
- 21 Mr. Jacques' work history; is that right?

- 1 A. Right.
- 2 Q. You say that you assumed that
- 3 Mr. Jacques was exposed to Kaylo products.

Page 12

Page 13

- 4 A. Right,
- 5 Q. When you say that, do you mean to say
- 6 that you assume he is exposed to Kaylo products
- 7 manufactured by Owens-Illinois?
- 8 A. It may or may not have been
- 9 manufactured by Owens-Illinois. I know that
- 10 there is probably going to be some legal dispute
- 11 about whether Owens-Illinois has any
- 12 responsibility for Kaylo products sold and even
- 13 manufactured by Owens-Corning in the years after
- 14 1958.
- 15 Q. Why do you think there is going to be a
- 16 legal dispute about that?
- 17 A. Because I understand that there will be
- 18 a claim of concerted action in which
- 19 Owens-Illinois may be held responsible for the
- 20 acts of Owens-Corning.
- 21 Q. Who told you there would be a claim of

- A. I was told about it in the past, but I
- 2 haven't reviewed it this morning, and I don't
- 3 recall what it was, that's correct.
- 4 Q. Does Mr. Jacques' work history provide
- 5 any basis for any of your opinions?
- 6 A. The opinions I would give would be
- 7 based on the availability of information to
- 8 Owens-Illinois at the time that Kaylo products
- 9 were on the market.
- 10 Q. So that we are clear, your opinion
- 11 would be your opinion no matter what Mr. Jacques'
- 12 exposure history is; is that right?
- A. Well, it is largely independent of
- 14 Mr. Jacques' exposure history in the sense that
- 15 he was exposed to Kaylo products. That I am
- 16 assuming. And these products were marketed by
- 17 Owens-Illinois in the manner that they were
- 18 marketed.
- 19 Q. So that we are clear then, your opinion
- 20 does not depend on any of the details of
- 21 Mr. Jacques' exposure; is that right?

- 1 concerted action?
- A. Mr. Queeney.
- 3 Q. When did he tell you that?
- 4 A. This morning.
- 5 Q. Did he tell you that at any time prior
- 6 to this morning?
- 7 A. We discussed the general concept
- 8 earlier than that, but I don't get into the
- 9 legalities. I don't really -- the fine points of
- 10 law in the different states where these cases are
- 11 filed are not something that I go to a great deal
- 12 of trouble to acquaint myself with.
- 13 Q. Is it your testimony that prior to this
- 14 morning, Mr. Queeney never told you that there
- 15 was a concert of action claim in this case?
- 16 A. I understood whether you call it
- 17 conspiracy or concert of action that there was
- 18 something like that that Mr. Queeney was working
- 19 on putting together in this case. I did
- 20 understand that.
- 21 Q. Dr. Castleman, is it your testimony

Page 17

Page 14

that prior to this morning, Mr. Queeney had never ! told you that there was a conspiracy or concert of action, or whatever synonym you would like to I use, claim in this case?

- A. No, I am not saying that.
- Q. Okay. When did he tell you that prior 7 to this morning?
- A. I don't keep records. I mean, we've) had phone conversations from time to time about) this, and I understood that that was one thing he was working on.
- Q. Have you reviewed the complaint in this ; case?
- A. No.

2 Plaintiffs?

5 lawyers for either side.

- Q. So you don't know if there is any 5 indication in the complaint about there being a 7 concert of action theory in this case?
- A. That's right.
- Q. Do you know if there has been any piece) of paper submitted, either to the parties or the Court in this case, that suggests that there is a

concert of action theory being pursued by the

submitted by either party in the case by the

Q. Dr. Castleman, is it fair to say that

your opinions in this case are also independent 3 of whatever disease Mr. Jacques alleges -- excuse

A. Yes, in the sense that my testimony

2 relates to the conduct of the Defendant, not the

me -- whatever disease Mr. Jacques' Estate

) alleges that he contracted and died from?

A. I haven't seen any specific documents

A. No. I am not testifying about

- 2 causation. I am not giving medical testimony.
- Q. You are not going to offer any opinion
- 4 that Mr. Jacques' disease was in fact caused by
- 5 asbestos, right?
- A. Well, it would be medical testimony. I
- 7 don't do that.
- Q. When were you first retained in this
- 9 matter by Mr. Queeney?
- 10 A. Sometime last year, but I don't
- 11 remember exactly when.
- Q. And when you say last year, you mean 12
- 13 2001?
- 14 A. Yes.
- Q. You don't mean to suggest that it was 15
- 16 more than a year ago, right?
- 17 A. No.
- Q. Can you give me anything more specific 18
- 19 than 2001?
- A. It's probably within the last four 20
- 21 months.

Page 15

- Q. Sometime after August of 2001?
- A. Yes.
- When you were retained, were you told
- 4 what you would be asked to testify about?
- A. No.
- Q. Was there any correspondence between
- 7 you and Mr. Queeney?
- A. I don't think so.
- Q. Did Mr. Queeney call you directly or
- 10 was he put in touch with you by someone else?
- A. I don't recall him saying whether he
- 12 was referred to me by someone else or not.
- Q. During that first conversation would
- 14 you have discussed, for example, what your
- 15 opinion would likely be?
- A. No. I mean, at that time there were 16
- 17 several Defendants in the case in the beginning,
- 18 and there wasn't this focus on Owens-Illinois
- 19 that now exists. It was just the usual testimony
- 20 on state of the art that I testify about, the
- 21 history of knowledge about the hazards of

5 testimony about the specific disease that 5 Mr. Jacques' Estate alleges, right?

3 Plaintiff.

A. That's correct.

Q. And you are not going to offer any

Q. You are not going to offer any

) testimony about medical literature in which there

) might be a dispute about whether that disease is

in fact caused by asbestos?

Case: 3:99-cv-00475-slc Document #: 43_{TM} Filed: 01/08/15 Castleman, 1-3-02 Jacques v. Keene

Page 18 Page 20 1 asbestos, the availability of that knowledge to 1 with whom you have discussed the sum and 2 the individual Defendants in the case. 2 substance of your expected testimony? O. Do you recall who the Defendants were A. Correct. 4 at the time you were first retained? Q. Tell me how many conversations you've A. I remember Flintkote was another one, 5 had with Mr. Queeney over the past four months. 6 and there may have been others at the time in the A. I don't know. Maybe five or ten, 7 beginning part of the case. 7 something in there. Q. Do you believe that there were others Q. Does that strike you as a large number at that time? 9 of conversations you to have with Plaintiff's A. There may have been. I don't know. I 10 counsel in an asbestos case? 11 don't recall any others, but there may have A. No. It's just that some lawyers are 12 been. 12 more diligent about learning the stuff and 13 putting it together than others. A lot of 13 Q. So essentially Mr. Queeney contacted 14 you and said Dr. Castleman, we'd like you to be 14 lawyers just list me in their cases and never get 15 our expert in this case for state of the art; is 15 in touch with me after they make the initial 16 that right? 16 contact. That might mean that their cases aren't A. Right. 17 coming up for trial for a long time. It might 17 18 Q. And asked for essentially the usual 18 mean a lot of things. 19 testimony? Q. Would it be fair to say that these five A. Right. 20 or ten conversations were at least partially you 20 Q. He didn't ask for anything in 21 educating Mr. Queeney about the background and 21 Page 19 Page 21 1 particular to be added or left out? 1 substance of your opinions? A. Well, that's always the case when an A. No. Q. You mentioned that you've had several 3 attorney gets into this litigation and contacts conversations with Mr. Queeney; is that right? 4 me and hires me as an expert, to deal with my A. Right. 5 particular part of the case, that I know that Q. Have you also spoken to other people 6 area better than the lawyer does, at first at 7 from his office? 7 least. A. Yes. He has an assistant named Eric Q. Do you know where this case is pending, 9 who generally contacts me for more secretarial 9 Doctor? 10 types of things. A. Where? 10 Q. Would it be fair to say that you have 11 Q. Yes. 11 12 never had any discussion with Eric that was not I think it's in Chicago, but I am not 12 13 administrative? 13 sure. A. That's correct. Q. Do you know whether it is pending in 14 14 Q. Is there anyone else in Mr. Queeney's 15 Federal or State Court? 16 office that you have spoken to? A. I think I was told it was Federal 16 A. Not that I can recall. I mean, there 17 Court. 18 may have been other people who contacted me about Q. When was the last time you testified in 19 scheduling and things like that. 19 a trial in Federal Court?

A. I don't remember.

Q. Has it been more than ten years?

20

21

Q. Would it be fair to say that

21 Mr. Queeney is the only person from his office

20

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 7 of 75 arry Castleman, 1-3-02 Multi-Page Jacques v. Keene

Page 22

- A. I don't think so. And I was involved in a case in Federal Court, the Chase Manhattan case against Turner & Newell, but I didn't testify in the trial. I testified -- I was deposed on three occasions, but I didn't testify in the trial. It seems to me I have been in the Federal Court sometime since then, but I don't recall when.
- Q. The Chase Manhattan case was tried in the early '90s; is that right?
 - A. 1995.
- Q. '95. And that was a property damage case, right?
 - A. Yes.
- Q. Chase Manhattan sued Turner & Newell for property damage arising out of the use of sprayed asbestos-containing insulation in their building in Manhattan, right?
 - A. Right.
- Q. Just so we are clear, Doctor, other than that, you can't think of any other case in

- 1 Q. Do you remember whether it was right at
 - 2 the beginning or sometime after you were first

Page 24

Page 25

- 3 retained?
- 4 A. I don't remember now.
- 5 Q. You mentioned Mr. Queeney asked you to
- 6 write a report; is that right?
- 7 A. I think so, yes.
- 8 Q. Did you in fact prepare a report in
- 9 this case?
- 10 A. I think we were working on a report,
- 11 but I think this was also around the time I was
- 12 running off to Argentina for a meeting in the
- 13 beginning of October. I don't recall how that
- 14 got completed.
- 15 Q. What it be fair to say, Doctor, that
- 16 you don't recall whether or not you have issued a
- 17 report in this case?
- 18 A. That's correct.
- 19 Q. You understand that for an expert
- 20 witness, the federal rules require that a report
- 21 be prepared?

Page 23

Federal Court that you have been involved in for the past ten years; is that fair?

- A. None come to mind. I think there have been some, but I just don't recall.
- Q. And in terms of testifying at trial in Federal Court, there are no instances that come to mind over the past ten years; is that right?
- A. Right. Almost all these cases have been in State Court in the past ten years.
- Q. During these five to ten conversations that you had with Mr. Queeney, at any time did he suggest to you a particular direction that he would like your opinion to go?
- A. No more than any lawyer does. I mean, they are just trying to figure out what does the evidence show, and he was also asking me to, I think, write a report at some point.
- Q. Did Mr. Queeney first suggest to you, if you can remember, that there was a concert of action element of this case?
 - A. I don't remember.

1 A. I don't really know what the federal

- 2 rules are.
- 3 Q. During the course of your work as a
- 4 witness in the asbestos litigation, have you
- 5 prepared reports for other cases?
- 6 A. On occasion. Usually not, but on
- 7 occasion I have, yes.
- 8 Q. It would be fair to say that it's the
- 9 small minority of cases in which you are asked to
- 10 prepare a report?
- 11 A. Right.
- MR. FISCHER: Could you mark that as 1,
- 13 please.
- 14 (Whereupon, Castleman Deposition
- 15 Exhibit No. 1, Report of Barry I. Castleman,
- 16 marked.)
- 17 BY MR. FISCHER:
- 18 Q. Dr. Castleman, I would ask you to take
- 19 a look at what we have got marked as Exhibit 1.
- 20 A. Yes.
- 21 Q. And let me know when you have had a

Case: 3:99-cv-00475-slc Document #: 43_{rm} Filed: 01/08/15 Page 8 of 75

Jacques v. Keene Multi-Page Barry Castleman, 1-3-02

Page 26

- 2 A. Okay. This looks like the report we
- 3 were putting together for the case.
- 4 Q. That document, Doctor, has a Bates
- 5 stamp on the bottom of it, right?
- 6 A. If you mean the numbers on the
- 7 pages, --
- 8 Q. Yes.
- 9 A. -- yes, it does.

1 chance to look it over.

- 10 Q. It runs from J 00292 to J 00302?
- 11 A. Yes.
- 12 Q. It is an 11-page document, right?
- 13 A. Right.
- 14 Q. On the last page it appears that
- 15 there's a signature line with your name under it,
- 16 right?

1

- 17 A. Right.
- 18 Q. But the report is not signed?
- 19 A. Right.
- 20 Q. Do you know, did you ever sign a copy
- 21 of this report?

- 1 was going on.
 - 2 Q. That's what I wanted to get clear on
 - 3 that point. Doctor, do I understand you to say
 - 4 that you were working on this particular report
 - 5 in October and it was delayed for whatever reason

Page 28

Page 29

- 6 or is it your testimony that you just had the
- 7 dates perhaps confused with regard to this
- 8 particular report?
- 9 A. I really don't remember the dates when
- 10 all this went on.
- 11 Q. Was there anything -- do you know where
- 12 you were on November 20th of 2001?
- 13 A. No.
- 14 Q. Do you know if you were in the
- 15 country?
- 16 A. Yes, I was in the country.
- 17 Q. Did Mr. Queeney ever notify you that he
- 18 was delivering a copy of that report to me?
- 9 A. I understood that he was going to do
- 20 that, but I don't recall him specifically telling
- 21 me that.

Page 27

- 1 Q. Did he ever tell you that he was going
 - 2 to send a copy to me even though it hadn't been
 - 3 signed by you?
 - 4 A. Again, I don't remember the details.
 - 5 He may have told me that. It wouldn't have
 - 6 mattered that much to me as long as it was -- you
 - 7 know, I had basically approved of the content of
 - 8 the report, and as far as I was concerned, he
 - 9 could do what he wanted with it, and I would have
 - 10 been happy to sign it, too.
 - 11 Q. Where was this document prepared? By
 - 12 "this document" I am referring to Exhibit Number
 - 13 1.
 - 14 A. Well, I provided him with a similar
 - 15 type of report that had been filed in another
 - 16 case and marked up a few changes and wound up
 - 17 with this.
 - 18 Q. So Exhibit Number 1, if I understand
 - 19 your testimony, was prepared in Mr. Queeney's
 - 20 office, right?
 - 21 A. Right.

A. I don't remember whether I did or not.

- 2 There was a lot of confusion at the time that we
- 3 were trying to conclude this thing, and I had
- 4 gone over the thing, and I had approved of what
- 5 it contained, and that was basically the point of
- 6 looking through it, for typographic errors, I
- 7 think, and I didn't hear from Mr. Queeney anymore
- 8 about that, so I see apparently this was never
- 9 formally signed when it was submitted or whether
- 10 it has been submitted. I don't know what the
- 11 status of this thing is.
- 12 Q. So it is your testimony that you did
- 13 not ever sign a copy of this report?
- 14 A. I don't remember signing a copy of the
- 15 report. I may have, but I don't remember. We
- 16 were in the final stages of putting it in, and I
- 17 don't recall what was going on at the time.
- 18 Q. You mentioned that you were in
- 19 Argentina in October; is that right?
- 20 A. Right. I must have been doing
- 21 something else in November at the time that this

A. I don't remember dates. It looks like

2 it's pretty well, pretty much the same thing. I

3 am looking for anything that might have changed.

Page 32

Page 33

4 I haven't seen anything that I am struck by here

5 that I recall having been changed from the thing

6 that I had originally sent to Mr. Queeney.

Q. Doctor, I see you have now had a chance

8 to page through all of Exhibit Number 1. Are you

9 satisfied that the exhibit accurately reflects

10 your opinions?

11 A. Yes.

12 Q. And are you satisfied that Mr. Queeney

13 didn't do any violence to your contents with

14 whatever editing he might have done?

5 A. I am satisfied that he didn't do any,

16 didn't do anything that would cause me any

17 problems.

18 Q. Is that typically your practice,

19 Doctor, to allow the attorneys who retain you to

20 edit your reports?

21 A. You are misstating what I said. If the

Page 31

1 and start over again.

2 his testimony.

4 Mr. Queeney's office.

A. Right.

1 cabinet.

3 copy of that?

A. I suppose so.

3 was the basis of this report.

MR. QUEENEY: Sure.

Dr. Castleman, when you sent the first

MR. QUEENEY: Objection. That's not

A. It was prepared by, it was typed up by

Q. And it was typed up based on a report

Q. Do you have a copy of that report, the

Q. Would it be possible for me to get a

5 the record official, I would like to have a copy

7 of the report that Mr. Castleman sent to you that

Q. Dr. Castleman, did you when you sent

1 the report to Mr. Queeney -- let me strike that

MR. FISCHER: Bob, just so we are on

5 from an earlier case that you sent to him?

A. Probably. I have it in my file

one that you sent to Mr. Queeney?

3 report to Mr. Queeney, did you mark anything on

1 that first report and send it to him?

A. I don't remember.

5 Q. So you don't remember whether you sent

7 him that report as it was written or with

3 markups, right?

A. I probably just sent it as it was

) written, said look, this is a rough draft, you

1 can work from it and put together something maybe

2 more particular for your case.

Q. Do you know what Mr. Queeney added or

1 removed?

A. No. I mean, I don't remember now.

5 It's basically the same thing.

Q. Do you know if you ever reviewed it

3 after Mr. Queeney edited it before it was

For submitted to me?

A. Yes, I did.

Q. Did you do that?

1 attorney wants to make a change, I mean lots of

2 times when I'll send these things around or get

3 them back and reread them, I will see a typo or

4 something like that that needs to be cleaned up,

5 and if the attorney wants to change something, I

6 certainly want him to show me what he wants to

7 change, and I will look at the way it is

8 expressed, and if I am not comfortable with it,

9 we will change it some more, but I am not going

10 to agree to anything as being my report unless I

11 am comfortable with what it says.

12 Q. I guess I am trying to understand what

13 your disagreement is with my question, Doctor.

Do you disagree with me that

15 Mr. Queeney edited your report?

16 A. Well, I think we ought to define what

17 we mean by edited. If the attorney chooses to

18 make any changes or wishes to make any changes to

19 a draft that I sent him for reasons that might

20 have to do with the particular language of the

21 law in the state where the attorney practices or

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 10 of 75

Jacques v. Keene Multi-Page Multi-Page Barry Castleman, 1-3-02

Page 34

1 something else that might be particular with the

- 2 case, I don't have any problem with that
- 3 basically. I just want to be shown whatever
- 4 changes were intended to be made and satisfy
- 5 myself that I am comfortable with those
- 6 statements as my statements, and if I don't feel
- 7 comfortable, then I won't adopt them as my
- 8 statements and will have further statements about
- 9 what does or doesn't go into the report.
- 10 Q. And, Doctor, why don't we define
- 11 editing, and let me make this very clear. When I
- 12 ask you if Mr. Queeney edited your report, I do
- 13 not mean to suggest that anything was done
- 14 without your consent or that it was somehow done
- 15 secretly. What I am asking you is did
- 16 Mr. Queeney do what an editor might do, suggest
- 17 changes or deletions and then discuss with the
- 18 author what those changes and deletions may be?
- 19 A. I think that he was thinking of doing
- 20 something like that, but I don't have any clear
- 21 memory of what exactly he might have changed in

1 has been doing this for the past few months, and

Page 36

- 2 that makes these documents available to people in
- 3 ways they weren't available before, and so this
- 4 has been done with respect to my Owens-Illinois
- 5 files, file which was provided to Mr. Queeney.
- 6 It's basically the same material that's discussed
- 7 in Chapter 9 in my book regarding Owens-Illinois.
- 8 Q. Was there anything provided to
- 9 Mr. Queeney that is not discussed in Chapter 9 of
- 10 your book?
- 11 A. There might have been something in that
- 12 Owens-Illinois file that's not specifically
- 13 discussed, but it wouldn't be anything
- 14 significant. It's basically the Owens-Illinois
- 15 library, the Kaylo testing documents.
- 16 Q. When you say "the Kaylo testing
- 17 documents", Doctor, are you talking about the
- 18 Saranac documents?
- 19 A. Right.
- 20 Q. When you say "the Owens-Illinois
- 21 library", are you talking about a list of

- 1 here. I don't see anything in here that I recall
- 2 having been changed subsequent to my discussions
- 3 with Mr. Queeney.
- 4 O. But we don't have with us today the
- 5 document that you sent to Mr. Queeney, correct?
- 6 A. No, but I think it would have been
- 7 pretty much the same. It's the same text. I
- 8 don't see anything or remember anything that got
- 9 changed in between the two.
- 10 Q. Were there any other documents,
- 11 Dr. Castleman, that you sent to Mr. Queeney other
- 12 than the report that served as the basis of
- 13 Exhibit 1?
- 14 A. I provided Mr. Queeney with the
- 15 corporate files that I have of Owens-Illinois and
- 16 possibly others. It might have been -- I don't
- 17 remember if I provided him with a Flintkote file
- 18 or not. I'm not sure. I didn't have much of a
- 19 Flintkote file at the time, and I don't recall if
- 20 it was available, but I have somebody who comes
- 21 over and scans some of my corporate files. He

- Page 37
 periodicals that were likely at Owens-Illinois
- 2 during the time it was manufacturing Kaylo?
- 3 A. Yes. The list and the documents
- 4 themselves.
- 5 Q. You would have provided both the list
- 6 and the documents to Mr. Queeney?
- 7 A. Yes.
- 8 Q. Other than those two categories,
- 9 Doctor, is there anything else that you provided
- 10 to Mr. Queeney in relation to Owens-Illinois that
- 11 is not discussed in Chapter 9 of your book?
- 12 A. Nothing I can recall.
- 13 Q. Would it be fair to say, Doctor, that
- 14 both of those two categories are materials that
- 15 you possessed prior to the publication of the
- 16 Fourth Edition?
- 17 A. I think so because I think I do talk
- 18 about the Owens-Illinois library in the Fourth
- 19 Edition. I think that that information came to
- 20 me within a year or two of the publication of the
- 21 Fourth Edition. The concluding discussion on

arry Castleman, 1-3-02

Multi-Page™

Jacques v. Keene

Page 40

Page 38

1 page 600 about Owens-Illinois talks about the

2 library material.

Q. So you clearly had that material prior

4 to the publication of the Fourth Edition?

A. Right.

Q. And you also had the Saranac materials

7 prior to the Fourth Edition, right?

A. Right.

Q. So then do we agree that in the

) materials that you provided to Mr. Queeney, there

1 was nothing that you have obtained after the

2 publication of the Fourth Edition of your book,

3 Asbestos: Medical and Legal Aspects?

A. I think that's correct. I mean, I

5 don't know that for absolute certainty, but I

5 think that's true.

Q. Other than, Doctor, the first report

3 that you sent to Mr. Queeney as well as your file

on Owens-Illinois, is there any other material

) that you provided to Mr. Queeney during the

1 course of your retention in this matter?

Page 39

Q. Did you provide Mr. Queeney with your

3 file on Owens-Corning, for example?

A. Nothing that I can recall.

A. No.

Q. Can you tell me, Doctor, what the

5 volume of your file on Owens-Illinois consists

7 of?

A. Well, you mean how big is it?

Q. Yes.

A. I think it's about 3 inches thick, not

1 counting the library materials --

Q. And --

A. -- which are larger and more

4 voluminous.

Q. By "library materials", you are again

5 referring to the actual materials that you

7 believe were possessed by Owens-Illinois?

A. Right.

Q. You never visited Owens-Illinois,

) right?

A. No.

Q. You never saw their library?

A. No. I have only seen answers to

3 interrogatories from Owens-Illinois regarding the

4 contents of the library.

Q. As a matter of fact, you have never

6 been present at any Owens-Illinois facility,

7 correct?

A. That's right.

Q. You have never talked to any

10 Owens-Illinois employee?

A. Not that I can recall. 11

12 Q. Dr. Castleman, when were you born?

A. 1946. Of course, that's based on 13

14 hearsay.

15 Q. Naturally.

16 MR. QUEENEY: That was a good year.

17 Q. Is it fair to say, Doctor, that all of

18 the knowledge you have gained about the history

19 of use of asbestos in this country comes from

20 material you have read?

21 A. From the history of use of asbestos in

Page 41

1 this country?

Q. Right.

A. If by history you are talking about

4 prior to 1970 before I became a participant in

5 the arena of regulation and public health, that

6 would be true. I was not -- you know, I guess

7 you could say I have also learned about some of

8 this by interviews with old-timers in the field

9 of occupational medicine, but aside from those

10 kinds of oral histories, the rest of it is

11 contained in documentation. It's in corporate

12 documents. It's in library articles and things,

13 books, Government records, archives of scientists

14 and the Government, so on.

Q. Would it be fair to say that for the 15

16 period prior to 1970 you don't have any personal

17 knowledge of how asbestos was used in the United

18 States?

A. I wasn't really paying attention to 19

20 it. I mean, I was working in the chemical

21 industry myself with the stuff all around me and

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 12 of 7
Barry Cast Jacques v. Keene Castleman, 1-3-02

Page 42

- 1 not even thinking about it.
- Q. Would it be fair to say that prior to
- 3 1970 you were not a participant in the public
- 4 health arena, as you say?
- A. That's correct.
- Q. You gave me a rundown of some of the
- documents that you have looked at since 1970 a
- 8 few minutes ago, right?
- A. Yes.
- Q. You have also relied on sworn testimony 10
- 11 that has been offered in a variety of litigation
- 12 circumstances, right?
- A. Yes. On occasion. 13
- Q. Have you made an effort to make a 14
- 15 complete review of the sworn testimony that has
- 16 been given in asbestos-related cases?
- 17 A. No, no. That would be impossible, and
- 18 I have tried to find things that were most
- 19 important in terms of laying out the history of
- 20 who knew what, when, but, as you know, there are
- 21 depositions taken every day or at least every

- - 1 sworn testimony by employees of Owens-Illinois in

Page 44

Page 45

- 2 the Kaylo division?
- A. I have seen a transcript of testimony
- 4 of Willis Hazard. I can't recall anything other
- 5 than that.
- Q. Have you ever made an attempt to
- determine whether or not anything else exists? 7
- MR. QUEENEY: Can you narrow that down 8
- 9 a little bit?
- 10 A. Yeah. What do you mean by that?
- Q. Have you made any attempt to determine 11
- whether or not there is any other sworn testimony
- 13 that has been given by former employees of
- 14 Owens-Illinois' Kaylo division?
- A. I imagine there have been other 15
- 16 depositions given by other people who were in
- 17 some way involved, but I don't know about any of
- 18 them. I mean, I guess the stuff, if it was
- 19 significant, it would have come to my attention
- 20 and hasn't. The Hazard depositions seemed
- 21 significant at the time that they were taken and

- 1 week of people about that subject.
- Q. In terms of reviewing testimony of
- 3 people with personal knowledge of what was
- 4 occurring, Doctor, in the 1940s and 1950s and
- 5 1960s with regard to asbestos-containing
- 6 products, have you made an attempt to
- 7 comprehensively review that testimony?
- A. I can't add anything to what I just
- 9 told you. I mean, I try to find things that I
- 10 think were, things that came to my attention,
- 11 things that might have been significant in the
- 12 history of knowledge about asbestos and disease.
- Q. You mentioned that you have tried to 13
- 14 read things that have come to your attention.
- 15 Have you done anything to go out and try to
- 16 acquire source material that may have not come to
- your attention in the ordinary course? 17
- A. I guess I've done that on a lot of
- 19 things that went into putting this book
- 20 together.
- Q. Have you made any attempt to review

- 1 at the time that they were passed on to me.
- Q. Who passed those on to you? 2
- A. I don't remember anymore. I think the 3
- deposition was 20 years ago.
- 5 Q. And you probably obtained that shortly
- after it was given? 6
- A. Probably within a couple of years after 7
- 8 it was recorded.
- Q. And I understand that you have not done
- 10 anything to try to obtain sworn testimony by any
- other former employee of the Owens-Illinois Kaylo
- 12 division, right?
- A. I don't think so, no. At least I can't
- 14 remember now any other names.
- Q. Doctor, the knowledge you have and the 15
- 16 opinions that you have expressed in what we have
- 17 as Exhibit 1 are based on your review of
- 18 historical documents and sworn testimony and
- 19 Government records and some of the other
- 20 documents that you listed for us previously,
- 21 right?

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 13 of 75 arry Castleman, 1-3-02 Multi-Page Multi-Page

Page 46 Page 48

A. Right.

Q. Your opinions are not based in any way on any experiments that you have ever done, right?

A. No. We are talking about history. We are not talking about laboratory analysis. We are talking about the history of public health.

Q. And you have never done any formal study of the use of asbestos by Owens-Illinois, right?

MR. QUEENEY: Objection to the form of the question. What do you mean by that, "formal study"? Other than his reading all the stuff?

Q. You can answer the question, if you can, Doctor.

A. Well, I don't really know what you mean by the term "formal study" either. I certainly know nobody at Owens-Illinois ever hired me to study the way they used asbestos. What do you mean by formal study?

Q. You never did anything to try to

1 MR. QUEENEY: As to what, Matt?

2 Perspective as to? It is two decades of

3 perspective undefined.

4 Q. You can answer, if you can, Doctor.

5 A. Well, if I narrow what you mean by

6 perspective to the health hazards associated with

7 manufacturing and using Kaylo, I haven't seen

8 anything that you could call evidence that adds

9 to the documentary basis that I have referred to

10 in my book. I haven't heard of it. I haven't

11 been cross-examined about it. I haven't been

12 otherwise informed that any such significant

13 evidence exists in the form of trial or

14 deposition testimony by such people as former

15 Owens-Illinois employees who might have had some

16 familiarity with the Kaylo operations.

17 Q. And it's fair to say, Doctor, that you

18 haven't looked for that material either, right?

19 A. That material has its way of finding

20 me. I testify in trials in which Owens-Illinois

21 is a Defendant. I would think that if there was

Page 47

determine what the Owens-Illinois employees were thinking at the time they manufactured Kaylo, right?

A. Aside from the documents that have survived, I haven't known of any such employees who might be prevailed upon to talk about what they were thinking back then in the 1950s when Owens-Illinois was making Kaylo back in the '50s and the 1940s.

Q. And you haven't done anything to try to determine what Owens-Illinois' perspective would have been, right?

A. Well, Owens-Illinois' perspective I think is, I think it is evident from the documentation that I have referred to in my book.

Q. Other than reviewing and interpreting
the historical documents, Doctor, you haven't
done anything to try to find out what
Owens-Illinois' perspective was in the 1940s and
'50s, right?

1 testimony by somebody who had been with

2 Owens-Illinois and who had been in the position

3 to know something about the health hazards

4 associated with the product and its manufacture

5 and if that individual had had anything

6 significant to say and if that information would

7 have in any way conceivably inured to the benefit

8 of Owens-Illinois and the defense of these cases,

9 it would have been brought to my attention, and I

10 get cross-examined by very capable attorneys like

11 yourself who represent Owens-Illinois from time

12 to time, and this is the kind of thing that if

13 there was some significant evidence in the form

14 of testimony by anybody that I hadn't known

15 about, I would expect to hear about it.

Plaintiff's lawyers also talk to me

17 about witnesses and evidence and testimony and so

18 on that they are expecting as trials are coming

19 up, and they say well, do you know anything about

20 so-and-so, and if it's some plant official or

21 something like that from one of the Defendants

Jacques v. Keene Multi-Page Multi-Page Barry Castleman, 1-3-02

Page 50

1 that I don't know about, then we will have a

- 2 conversation about what is it that this person
- 3 has to say, and I just can't think of anything of
- 4 that kind in connection with Owens-Illinois and
- 5 the manufacture of Kaylo aside from the testimony
- 6 of Mr. Hazard.
- 7 Q. And, Doctor, I understand your answer.
- 8 My question, however, is whether or not you have
- 9 done anything independently to go out and search
- 10 out information that would add to your body of
- 11 knowledge about Owens-Illinois' perspective when
- 12 it manufactured and sold Kaylo in the 1940s and
- 13 '50s?
- 14 A. No.
- 15 Q. It's fair to say that you believe that
- 16 that material would find its way to you if it was
- 17 out there, right?
- 18 A. Right. If there was anything
- 19 significant.
- 20 Q. Your methodology is to allow people to
- 21 bring you the material as opposed to going out

- 1 this litigation hasn't found its way to me in the
 - 2 form of something I get delivered to me in one or

Page 52

Page 53

- 3 the other of the ways that I have just described.
- 4 MR. QUEENEY: At some time when you are
- 5 at a certain point, I'd like to take a short
- 6 break.
- 7 MR. FISCHER: Sure. That's fine. This
- 8 is a good point.
- 9 (Recess taken -- 11:21 a.m)
- 10 (After recess -- 11:25 a.m.)
- 11 BY MR. FISCHER:
- 12 Q. Doctor, this deposition was originally
- 13 scheduled for December 20th, right?
- 14 A. I think so. I don't remember. There
- 15 are so many depositions that get scheduled and
- 16 rescheduled.
- 17 Q. Well, this one may be a little
- 18 different. I understand it was rescheduled at
- 19 your request. Do you recall making that
- 20 request?
- 21 A. Yes. Vaguely.

- 1 and searching for it yourself?
- 2 A. I have done both in the past, but for
- 3 the type of thing you are asking about, it's not
- 4 something one finds in medical and engineering
- 5 libraries. It's only available through the
- 6 channels of litigation, and there are a lot of
- 7 Defendant companies in the asbestos litigation.
- 8 I haven't systematically tried to call up
- 9 whatever law firms I know who might have more
- 10 complete files on some or others and ask them the
- 11 specific things that you are asking me about
- 12 right now, do you have any testimony from some
- 13 employee, some plant manager, some other
- 14 management official or worker at this plant who
- 15 has anything to say about what they knew about
- 16 the hazards of asbestos, what they thought about
- 17 the hazards of the product back in the 1950s or
- 18 whatever. I haven't gone to the extent of
- 19 basically calling up a bunch of lawyers to try
- 20 and find out if evidence of this kind exists
- 21 which over the past 23 years of my involvement in

- 1 Q. December 20th was two weeks ago today.
- 2 Do you recall where you were?
- 3 A. I don't.
- 4 Q. When was the last time you testified at
- 5 a trial?
- 6 A. I was out on the West Coast right
- 7 around that time, so that's probably why this was
- 8 rescheduled. Yes. I was testifying in San
- 9 Francisco that week.
- 10 Q. Do you recall which days that week you
- 11 testified?
- 12 A. No.
- 13 Q. Who was the Plaintiff's counsel there?
- 14 A. It was the firm of Paul & Hanley.
- 15 Q. Do you remember the lawyer who
- 16 questioned you on direct examination?
- 17 MR. QUEENEY: Sweeney.
- 18 A. No. What happened was I came out there
- 19 for a deposition and a trial, and we only wound
- 20 up doing the deposition. I think that was on
- 21 Tuesday, and then there was another deposition

arry Castleman, 1-3-02

Multi-Page™

Jacques v. Keene

Page 54 Page 56

- that was offered on Wednesday, and there were no
- takers. There was also some talk about having a
- 3 Tuesday deposition that might carry into
- Hednesday, and then there was supposed to be a
- 5 trial on Thursday, and at some point that trial
- 5 got moved to Federal Court after I was out there,
- 7 so that's why I was unable to be available that
- 3 Thursday for your deposition in this case.
 - Q. Is it fair to say then you don't --
-) well, I'm sorry. There was no trial testimony.

 The deposition, was it in the same case that was
- 2 scheduled to be heard for trial?
 - A. I don't think so. No.
- Q. Who questioned you at the deposition,
- if you know?
- A. The lawyer questioning me represented a
- 7 company called Kaiser Gypsum.
- Q. Do you recall his name?
- A. No.
 - Q. Was there a Plaintiff's lawyer there at
- the deposition with you?

- 1 Q. What opinions did you offer in that
- 2 case where you were deposed?
- 3 A. Oh, I basically offered the opinion
- 4 that in the case in which I was testifying where
- 5 exposure from the products didn't start until
- 6 sometime after 1965, I testified that the company
- 7 was clearly aware of the fact that asbestos
- 8 caused cancer in 1965, and within a short time
- 9 after that, they were aware of the hazards
- 10 associated with drywall patching compounds they
- 11 were selling in the form of specific product
- 12 testing that was done and correspondence that
- 13 existed regarding whether they were covered by
- 14 the OSHA asbestos standards requirements for
- 15 warning labels.
- 16 Q. Do you know the name of the case?
- 17 A. I don't remember.
- 18 Q. Did you write a report for that case?
- 19 A. No
- 20 Q. As I understand it, Doctor, your
- 21 opinions in that case were specific to Kaiser

Page 55

- A. Yes.
- Q. Do you know that person's name?
- A. I have forgotten her name. She was one
- of the lawyers that I hadn't worked with in the
- 5 past in the firm, and she was just sort of
- 5 filling in to be present at the deposition. She
- 7 didn't really have to do anything.
- Q. You pretty much have done this enough
-) that you can deal without help from a lawyer,
-) right?
- A. Well, there is no -- yeah. At this
- 2 stage of my familiarity with the legal arena,
- 3 there's little for Plaintiff's attorneys to do
- I usually at discovery depositions. Every once in
- 5 a while questions are asked that aren't clear or
- 5 might not be proper, but that's not usually a
- 7 problem, and if the questions aren't that clear,
- 3 I can usually deal with it just as well by either
- clarifying what I think the question was before
-) answering it or by just asking the lawyer to ask
- ∟it again.

- 1 Gypsum?
 - 2 A. Right.
 - Q. Were you being asked to be a general
 - 4 state of the art witness in that case?
 - 5 A. Well, part of testifying in most of
 - 6 these cases is to provide general state of the
 - 7 art testimony on what was publicly available.
 - 8 Q. I'd like you to again look at Exhibit 1
 - 9 to the deposition here. Would you agree with me,
- 10 Doctor, that that report doesn't say anything
- 11 about Owens-Illinois?
- 12 A. I think that's right. I don't think
- 13 Owens-Illinois specifically was mentioned or
- 14 named in the report.
- 15 Q. And it doesn't say anything about
- 16 Owens-Corning, right?
- 17 A. I think that's also true.
- 18 Q. It doesn't say anything about concerted
- 19 action, right?
- 20 A. I don't believe so. Although there was
- 21 a one-page addition to the report which you have

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 16 of 75

Jacques v. Keene Multi-Page Barry Castleman, 1-3-02

Page 58 Page 60 1 been provided within the last day or two. Q. I'm sorry. I didn't hear you. 1 Q. We are going to get to that, but I just 2 A. I believe that's right I said. 3 want to focus on Exhibit 1 for the time being. Q. You mentioned that there was a one-page 3 4 Exhibit 1 also doesn't say anything about 4 supplement, right? 5 substantial assistance, right? A. Right. 5 A. I guess that's a legal expression. I 6 Q. Did you sign that document? 7 don't believe it does, that's right. 7 Q. We can agree that it doesn't contain When did you sign it? 8 9 the words substantially assisted, right? A. Yesterday. 9 What time? A. Right. 10 11 Q. And it doesn't contain the words 11 A. Early afternoon I think I got to it. 12 substantial assistance, right? MR. FISCHER: Would you mark that as 12 A. My report initially does not, right. 13 Exhibit 2, please. 13 14 This November report does not say that. 14 (Whereupon, Castleman Deposition Q. And that report doesn't say anything 15 Exhibit No. 2, Fax Transmittal to Fischer from 15 16 about either Owens-Illinois or Owens-Corning Queeney with 1/2/02 Addendum, marked.) 17 misrepresenting health hazards related to Kaylo, 17 BY MR. FISCHER: 18 right? Q. Doctor, would you take a look at what 18 19 we have marked as Exhibit 2 and describe that for A. That's right. I mean, this report 19 20 wasn't drafted for any particular Defendant. 20 me. 21 It's a more general report. 21 A. This is the addendum to my report which Page 59 Page 61 Q. As a matter of fact, the report that we 1 I signed and faxed to Mr. Sweeney --1 2 have marked as Exhibit 1 is just the general 2 Mr. Queeney. Sorry. 3 state of the art testimony, right, --Q. You signed and faxed this to 4 Mr. Queeney yesterday, right? A. Yes. Q. -- that you have given many times? A. Yes. 5 5 A. Oh, it summarizes the testimony that I Q. I'm going to just read this in its 7 entirety, and you can tell me if I read it 7 have given many times, yes. The report that we have marked 8 correctly 9 Exhibit 1 doesn't say anything about whether "Dear Mr. Queeney, to clarify my prior 10 Owens-Illinois or Owens-Corning warned or 10 report, I am of the opinion that Owens-Illinois 11 disclosed of any hazards related to asbestos, 11 acted in concert with Owens-Corning Fiberglas in 12 that Owens-Illinois and Owens-Corning Fiberglas 12 right? 13 A. No, but it makes frequent reference to 13 each misrepresented the health hazards of Kaylo 14 my book which contains much more detailed 14 and failed to disclose or warn that Kaylo 15 information along those lines. 15 insulation products could cause asbestosis and Q. I am right, though, Doctor, that the 16 cancer; Owens-Illinois substantially assisted and 16 17 report doesn't contain any reference to 17 encouraged such conduct by Owens-Corning

A. I believe that's right.

20 right?

18 Owens-Illinois or Owens-Corning in relation to

19 any warnings relating to asbestos hazards,

18 Fiberglas; and Owens-Illinois provided

19 substantial assistance to Owens-Corning Fiberglas

20 in its marketing and sale of Kaylo products while

21 Owens-Corning Fiberglas and Owens-Illinois were

arry Castleman, 1-3-02 Jacques v. Keene Multi-Page Page 62 Page 64 each failing to disclose these same hazards. 1 the state that he is practicing in, and I just 2 Sincerely Barry I. Castleman." 2 looked at the statement itself and said okay, I Is that right? 3 can sign that, I agree that those things are A. Right. 4 true. Q. I want to ask you, Doctor, how this Q. It's fair to say that after Mr. Queeney 6 sent this paragraph to you, you didn't do any 5 came about. Is it fair to say that when you woke up 7 additional investigation, right? 3 yesterday morning, you weren't thinking that you A. No. That's correct, I did not do any needed to submit an addendum, as you called it, 9 additional investigation.) to your earlier report? Q. You didn't do any additional research? 10 A. That's right. I may have been told 11 A. Correct. something about this, but I don't think I was. Q. You simply looked over that paragraph, 12 13 put it on your letterhead and signed it? Q. So what happened yesterday that led you to write this paragraph and send it to A. Right. 14 Mr. Queeney? 15 Q. Do you know who wrote the paragraph A. This was transmitted to me along with 16 originally? the question is this agreeable to you to sign a 17 A. I assume Mr. Queeney or one of his 3 statement like this, and I looked it over, and I assistants did. I assume Mr. Queeney did that.) said yes, it is, and I signed it, printed it on Q. Does it matter to you who wrote it 19) my letterhead -- I mean printed it on my originally? 20 A. It came from his office. I assume that letterhead, signed it and then faxed it back to 21 Page 63 Page 65 1 this wasn't just something that some secretary Mr. Queeney. Q. You spoke to Mr. Queeney yesterday? 2 did on her lunch hour. Q. Assuming that it was an authorized Q. Did you speak to him before you signed 4 transmission, does it matter to you at all who if this piece of paper? 5 wrote the paragraph in the first instance? A. I don't think so. A. I assume that Mr. Queeney wrote this. O. So he sent you an e-mail presumably, or 7 The language seemed to me to be rather carefully 3 how did that work? 8 chosen. It wasn't a lengthy statement. It was A. It was an attachment to an e-mail. I 9 just a short-and-to-the-point kind of statement, cleaned up the misspellings, printed it. 10 and it was about things that we had talked about Q. And when I asked you, Doctor, if you 11 in the past, this whole business of the ! had reviewed any materials in connection with 12 interaction of Owens-Corning and Owens-Illinois. your retention in this case, you didn't consider Q. Was there any other language that 13

I that to be the kind of material I was asking i about? A. Maybe I just didn't think of it. I mean, this whole affair didn't take a great deal of time. I mean, I looked at the document. I thought okay, this lawyer needs something that

relates to the specifics of the claims he is

making in the court that he's in and the laws in

Q. Was there anything in the e-mail from 17

A. No. The only changes I made were

14 Mr. Queeney sent to you that you rejected?

18 Mr. Queeney to you that explained why he needed

19 this or when he needed it?

A. No. 20

16 correcting typos.

15

21 You mentioned that the language in this

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Multi-Page Page 18 of 75 Barry Castleman, 1-3-02 Jacques v. Keene

Page 66

- 1 paragraph came as an attachment to an e-mail; is
- 2 that right?
- A. Right.
- Q. Did the e-mail itself have any text in
- 5 it?
- A. I don't remember any. I mean, it must
- 7 have been some transmittal sentence like please
- 8 read this, get back to us with it.
- Q. Do you still have that e-mail?
- A. I suppose so. 10
- Q. Could I get a copy of it? 11
- 12 A. Yes.
- MR. FISCHER: Bob, I would like to 13
- officially request that document. 14
- MR. QUEENEY: Okay. 15
- Q. Did you send an e-mail back? 16
- A. I think I sent something back saying 17
- 18 okay, I have cleaned up the typos and I am faxing
- 19 this back to you separately just so that whoever
- 20 sent the e-mail would know to look for the fax.
- 21 Q. Do you still have that e-mail that you

1 done right away. Once I saw it, I took care of

Page 68

- 2 it.
- 3 Q. Am I right that you didn't have any
- 4 communication with Mr. Queeney other than that
- 5 exchange of e-mails?
- MR. QUEENEY: Objection. 6
- A. I talked to someone in his office at 7
- 8 some point. I think it was about other things,
- 9 but actually I don't think I ever talked to
- 10 Mr. Queeney yesterday at all. I talked to other
- 11 people or communicated with other people in his
- 12 office about basically sending this thing back
- 13 and forth and the arranging to find out where and
- 14 when the deposition was which I didn't learn
- 15 until sometime late yesterday afternoon.
- Q. Would it be fair to say, Doctor, that 16
- 17 other than those two e-mails that we have
- 18 discussed, you have had no communication with
- 19 anyone from Mr. Queeney's office about the
- 20 substance of Exhibit Number 2?
- 21 A. That's correct. I mean, this wasn't

Page 67

Page 69 1 the subject of any discussion really. I saw the

- 2 thing. I understood, I thought, what it was

 - 3 for. I realized that it needed to be taken care 4 of before today's deposition, and I looked at it,
 - 5 didn't have any problem with the language,
 - 6 cleaned up some spellings and sent it back.
 - Q. Is that your general practice, Doctor,
 - 8 to have attorneys draft addendums to your reports
 - 9 and you sign them?
 - A. It's unusual to have an addendum to a
 - 11 report, but these things can happen. I wouldn't
 - 12 say it's a usual practice or a usual thing
 - 13 because I can't recall another report that got
 - 14 submitted and then later had an addendum added to
 - 15 it, but, on the other hand, it doesn't strike me
 - 16 as irregular in any significant way. I mean, it
 - 17 doesn't concern me. As long as I am in control
 - 18 of anything that goes in with my signature and my
 - 19 name on it, it's okay. I mean, the lawyers, they
 - 20 can write whatever they want, but if I don't
 - 21 agree with it, I'm not going to sign it.

- 1 sent to Mr. Queeney's office?
- A. I suppose it's in the computer 2
- somewhere. 3
- Q. Could I have that one also, please?
- 5 A. Yes.
- THE WITNESS: I mean, to the extent 6
- that you can, would you provide these to me? 7
- MR. QUEENEY: Yes. 8
- Q. Did you have any questions about why
- this was needed? 10
- A. No. 11
- Q. Did you have any question about when it 12
- 13 was needed?
- A. I assumed it was needed pretty quickly
- 15 because this deposition was coming up, and I'm
- 16 familiar enough with the legal process to know
- 17 that you want to put these kinds of things on the
- 18 table before a deposition if you want the
- 19 deposition to ever end.
- 20 MR. QUEENEY: Exactly.
- A. And so I assumed that it needed to be

arry Castleman, 1-3-02

Multi-Page

Jacques v. Keene

Page 72

Page 73

Page 70

Q. Is it fair to say, Doctor, that

2 Exhibit 2 is the entirety of what you have 3 referred to as the addendum to your report?

A. Yes.

Q. There's no citations contained in this

5 exhibit, right?

A. Right.

Q. There's no direction to any source

material, right?

A. Right.

Q. There's no indication what the basis is

for any of these opinions?

A. It's not contained in the report.

+ Obviously this is something that would be 5 established by evidence which would be largely

5 drawn from the Fourth Edition of my book which

7 has now been around for over five years.

Q. But we agree, Doctor, that there's

) nothing in this addendum that indicates what the

) basis is for any of these opinions, right?

suppose if one wanted to be a little bit more

3 cited my book as reference, but I think that's

1 understood in this litigation, that my book is

5 out there, and attorneys such as yourself are

Q. You had an opportunity to add or

A. Right, but I assumed that this is

t something that is being submitted for legal

? reasons, and I'm not somebody who concerns

3 himself with that aspect. I am a technical, a

+ scientific expert. I am not a legal expert, and 5 the lawyers have their own reasons for submitting

5 whatever reports and addendums and so on that

3 detract from the paragraph that Mr. Queeney sent

2 compulsive about it, the addendum would have

A. That's right. The addendum doesn't. I

A. Right.

Q. And by being in control, that means

3 that you have the opportunity to add or detract

4 to it, right?

A. Right.

Q. And you didn't add a reference to your

7 book, right?

A. Right.

Q. And there are 916 pages in your book

10 without the index, right?

A. Right. 11

12 MR. FISCHER: Let me, for the record,

13 just indicate that Exhibit Number 2 was a fax

14 that was received in my office yesterday from

15 Robert W. Queeney of McBride Baker & Coles at

2:39 p.m. It made its way to my desk

approximately one hour after that.

I object to this document being 18

19 considered as any part of the reports that have

20 previously been submitted on Dr. Castleman's

21 behalf. I will do my best in this deposition to

Page 71

1 question Dr. Castleman about what appears in

2 Exhibit Number 2, but I do object that less than

3 24 hours notice is entirely insufficient and

4 inconsistent with the federal rules, particularly

5 in light of the fact that we have a trial date

6 approaching in this case and a pretrial order due

7 a week from tomorrow.

As I said, I will do my best, but it is

9 without waiving any of my rights to depose

10 Dr. Castleman again. In fact, I think that

11 another deposition of Dr. Castleman will be

12 necessary in light of the fact that his opinions

13 have radically changed from his original report

14 which we have marked as Exhibit Number 1 to this

15 supposed addendum which we have marked as Exhibit

16 Number 2.

My ability to question Dr. Castleman is 17

18 also severely handicapped by the fact that there

are no citations and no materials referenced in

20 this addendum for me to determine what the basis

21 of Dr. Castleman's opinions are.

3 jurisdictions.

Q. But we agree, correct, that you were in

) control of the substance of this addendum,

7 they submit to the courts in their

□ right?

5 familiar with it.

) to you, right?

MR. QUEENEY: I would, for the record, 1

- 2 object to that statement. That's not a new
- 3 opinion by any means. The first rendition of
- 4 that opinion was rendered in our answers to
- 5 interrogatories in November. That same opinion
- 6 appears in his report, Exhibit Number 1. It is
- 7 fully set forth in his book which is, as counsel
- 8 has indicated on the record, maybe not on the
- 9 record, he has read, and there are numerous
- 10 citations which Dr. Castleman can summarily cite
- 11 to right now looking at this book and support
- 12 that same theory.
- What's in that I would also say is, 13
- 14 certainly from my reading of information I
- 15 received last month or so from counsel,
- 16 information that was put forward in a lawsuit in
- 17 Bloomington, Illinois in which this individual,
- 18 Mr. Fischer, was counsel of record, so there is
- absolutely nothing new there, but I'm going to
- save that, and let's get on with it.
- MR. FISCHER: For the record, I 21

- A. That's correct. The book isn't that 2 kind of a document. It is not a legal document.
- Q. At no point in your book, Doctor, do
- 4 you state that Owens-Illinois and Owens-Corning

Page 76

Page 77

- 5 Fiberglas each misrepresented the health hazards
- 6 of Kaylo; is that right?
- MR. QUEENEY: I am going to object. Do
- 8 you mean is that specific wording used or does he
- 9 reference each one individually which if you
- 10 combine them there is an answer to your
- 11 question?
- 12 Q. You can answer the question, Doctor.
- A. Well, I make reference to I think the 13
- 14 publication of the brochure that talks about
- 15 Kaylo being nontoxic. There are repeated
- 16 references to this business of Kaylo being
- 17 marketed as a nontoxic product by Owens-Illinois
- 18 in 1952 and also in a brochure published in
- 19 1956. I see that in the brochure. I don't see
- 20 it mentioned in the section on Owens-Illinois.
- Q. Dr. Castleman, is it true that at no 21

- 1 disagree with Mr. Queeney's factual recitation.
- BY MR. FISCHER: 2
- O. Dr. Castleman, let's talk about
- something that Mr. Queeney just said. He said
- 5 that the opinions that are expressed in Exhibit
- Number 2 are contained in your book.
- 7 Did you hear him say that?
- A. Something to that effect.
- Q. That's not true, is it?
- A. Well, the evidence on which the 10
- 11 opinions are based is contained in the book. It
- 12 is contained in a fairly compact form in Chapter
- 13 9, company knowledge on Owens-Illinois which
- 14 starts on 592 and ends on 600, so in the space of
- 15 eight pages you have a fairly compact summary of
- 16 Owens-Illinois' involvement with the Kaylo
- 17 business.
- Q. Dr. Castleman, at no point in your book
- 19 do you state I am of the opinion that
- 20 Owens-Illinois acted in concert with
- 21 Owens-Corning Fiberglas; is that correct?

- 1 point in your book do you state that
- 2 Owens-Illinois misrepresented the health hazards
- 3 of Kaylo?
- A. Well, I believe that marketing it as
- 5 nontoxic misrepresented the hazards of Kaylo.
- I understand. 6
- A. I don't say in the book -- I don't 7
- 8 connect the dots in the book, but I present the
- 9 evidence, both the evidence that Owens-Illinois
- 10 was told by Dr. Vorwald that, quote, unquote,
- 11 every precaution should be taken to protect
- 12 workers against inhaling the dust and then months
- 13 later Owens-Illinois selling Kaylo as nontoxic in
- 14 a Petroleum Engineer magazine.
- Q. Owens-Illinois was selling Kaylo in 15
- 16 that magazine?
- A. They were advertising Kaylo in their 17
- 18 article that appeared in the same issue of the
- 19 magazine, described it as nontoxic.
- 20 Q. At no point in your book, Doctor, do
- 21 you state that Owens-Corning Fiberglas

1 misrepresented the health hazards of Kaylo; is 2 that right?

MR. QUEENEY: Objection.

- A. I don't use those words, that's right.

 MR. QUEENEY: Just for the record, that

 article he just referred to is the one that you
- 7 promised me about two weeks you were going to get 8 to me which is the article by Mr. Schuman.
- 9 MR. FISCHER: We can talk about that 0 later, Bob. I don't think that accurately 1 reflects our conversation.

MR. QUEENEY: I thought it did.

- Q. Doctor, at no point in your book do you say that Owens-Illinois substantially assisted and encouraged such conduct by Owens-Corning Fiberglas, and I am quoting from Exhibit 2; is that right?
- A. That's correct. I don't use that kindof language in my book.
- Q. And at no point in your book do you say that Owens-Illinois provided substantial

1 products?

2 A. Yes. I think this language of nontoxic

Page 80

Page 81

- 3 and easy on the hands or nontoxic and not
- 4 irritating, this kind of language which
- 5 Owens-Illinois initially published in Petroleum
- 6 Engineer in 1952 was adopted in sales brochures.
- 7 I have seen including one from 1956 bearing the
- 8 trademarks of Owens-Illinois and Owens-Corning
- 9 and using the term nontoxic to describe the Kaylo
- 10 product, so here you see this language which
- 11 appears to have originated with Owens-Illinois
- 12 being adopted in a sales instrument by
- 13 Owens-Corning which was in 1956 the principal
- 14 agent for the sale of Kaylo in the United
- 15 States.
- 16 Q. Am I correct, Doctor, that you
- 17 understand that 1956 advertisement to be an
- 18 Owens-Corning advertisement?
- 19 A. Well, I see the trademarks of both
- 20 companies. I don't know how you draw the
- 21 distinction except if you say that Owens-Corning

- 1 assistance to Owens-Corning Fiberglas in its
- 2 marketing and sale of Kaylo products? That's
- 3 also correct, right?
- A. That's correct.
- 5 Q. At no point in your book, Doctor, do
- 5 you talk about Owens-Illinois assisting
- 7 Owens-Corning in any way, right?
- MR. QUEENEY: Objection. You mean the
- > word literally, "assisting"?
- A. I don't use the word assisting. I talk
- 1 about the fact that they had a relationship where
- 2 one company, Owens-Illinois, was the
- 3 manufacturer, and Owens-Corning was the principal
- 4 marketing agent for the product during the
- 5 1950s.
- 5 Q. Other than that period, Doctor, when
- 7 Owens-Illinois was manufacturing Kaylo and
- 3 Owens-Corning was selling it, is there anything
- else that you point to as Owens-Illinois
-) providing substantial assistance to Owens-Corning
- 1 Fiberglas in its marketing and sale of Kaylo

- 1 was the marketing agent and, therefore, then
- 2 Owens-Corning was principally, or more than
- 3 Owens-Illinois, responsible for the language in
- 4 that instrument, but it seems like it tracks very
- 5 closely with the language previously developed by
- 6 Owens-Illinois in the Schuman article and in the
- 7 advertisement in Petroleum Engineer in 1952 a
- 8 year before Owens-Corning became the marketing
- 9 agent, the national marketing agent for the sale
- 10 of Owens-Illinois' Kaylo.
- 11 Q. It's fair to say, Doctor, with regard
- 12 to that 1956 advertisement that you have no idea
- 13 who wrote it, right?
- 14 A. That's right. I mean, the author, the
- 15 individual person who authored that, if it was
- 16 one person, I have never seen any documentation
- 17 showing who that would have been.
- 18 Q. And you don't know who employed that
- 19 person, right?
- 20 A. Right.
- 21 Q. You don't know who paid for the

- 1 advertisement?
- 2 A. That's right. Well, I mean, it's a
- 3 brochure. I don't know who paid for it, printing
- 4 the brochure.
- 5 Q. And you don't know who paid for it to
- 6 be distributed or even if it was distributed,
- 7 right?
- 8 A. I don't know any of the details of the
- 9 brochure's distribution, whether it was done by
- 10 Owens-Corning only or whether it was also done by
- 11 Owens-Illinois, any of the details, that's right,
- 12 I don't.
- 13 Q. And you don't even know if it was, in
- 14 fact, distributed?
- 15 A. Well, I find it bizarre that such a
- 16 document would have been retained in the files of
- 17 either company and produced in discovery so many
- 18 years later if there was just one copy of some
- 19 brochure that was developed but for some reason
- 20 never used in marketing, and I have seen multiple
- 21 things. It's not just the one. There's a

1 of Kaylo products, other than the two things we

Page 84

Page 85

- 2 have talked about, is there anything else that
- 3 supports that opinion?
- 4 A. Well, it's those two things plus the
- 5 fact that Owens-Illinois was, after all, the
- 6 manufacturer of the product at the time that
- 7 Owens-Corning became the principal marketing
- 8 agent for the product.
- 9 Q. Right. That's 1953 to 1958, right?
- 10 A. Right. And I would have to assume --
- 11 now, the joint advertisements I mentioned on page
- 12 613 of my book, it's in the section on
- 13 Owens-Corning, not on Owens-Illinois.
- 14 Q. You have got no evidence that that is
- 15 actually a joint advertisement, right?
- 16 A. Well, I call it that because the
- 17 trademarks of both companies appear on the
- 18 advertisement. Technically you might be right.
- 19 Maybe it was an advertisement that was used in
- 20 marketing by Owens-Corning without any continuing
- 21 involvement by Owens-Illinois in the drafting of

- 1 one-page brochure, but then there is a
- 2 several-page one that I have also seen that's a
- 3 little different than that one that also has the
- 4 same language about nontoxic in it, so it is not
- 5 just one brochure. It's more than one.
- 6 Q. Just sticking with the 1956 one for the
- 7 time being, you don't know for a fact that it was
- 8 ever distributed, right?
- 9 A. Right.
- 10 Q. You have never talked to anybody who
- 11 actually saw it contemporaneously, right?
- 12 A. Right.
- 13 Q. As a matter of fact, you have never
- 14 spoken to anyone who saw any of these references
- 15 to nontoxic that you are talking about
- 16 contemporaneously?
- 17 A. Right.
- 18 Q. With regard to your opinion in
- 19 Exhibit 2 here, Dr. Castleman, that
- 20 Owens-Illinois provided substantial assistance to
- 21 Owens-Corning Fiberglas in the marketing and sale

- 1 the language and so on, but as I was starting to
- 2 say, the fact that here Owens-Illinois is
- 3 manufacturing this product and they are making a
- 4 deal with Owens-Corning to be their marketing
- 5 agent for the product at some point after the
- 6 product is established, surely there's every
- 7 reason to assume that they would have provided
- 8 assistance to Owens-Corning unless there's
- 9 evidence to the contrary to make a success of
- 10 marketing the product which they continued to
- 11 manufacture and profit from the sale of for the
- 12 next five years.
- 13 Q. That is an assumption you are making,
- 14 right?
- 15 A. Right. I am assuming they are not
- 16 stupid businessmen.
- 17 Q. There are no facts that you can say
- 18 that supports that assumption?
- 19 MR. QUEENEY: Objection. Asked and
- 20 answered. Other than the relationship you mean?
- 21 A. I can't point to any specific documents

Jacques v. Keene

Page 88

Page 89

Page 86

that talk about how one company was very happy to

2 help the other company or seek the help of the

3 other company in getting the Owens-Corning

4 marketing effort for Kaylo launched in the most

5 successful manner. It's purely a matter of

5 inference on my part that the appropriate people

7 in the two companies would have worked together

3 at that point to assure that there was a smooth

transfer and that the marketing of the product

) would go on in a successful and financially

1 successful way.

Q. You can't point to any specific

3 instance of assistance being provided of

4 Owens-Illinois to Owens-Corning, right?

A. Nothing beyond what I have said, no.

The things that you have talked about,

7 Doctor, are the things that would have occurred

3 in this period 1953 to 1958, right?

A. Both the things we have talked about so

) far, yes.

Q. With regard to the substantial

1 testify about that.

Q. So you don't hold the opinion that

3 Owens-Illinois was offering substantial

4 assistance to Owens-Corning prior to 1953,

5 right?

A. Well, all I am trying to say here is

7 the deal wasn't done in one day, that there was

8 probably a period of months, if not years, of

9 discussions that went on, and people were getting

connected in a way so that there could be a

11 smooth and, from a business standpoint,

12 successful transition in handing over this major

13 marketing program to the people at

Owens-Corning. I don't know the details of how

15 that was done or how far back it went.

Q. Not only do you not know the details, 16

you don't have any factual information about that

18 at all, right?

19 A. Right.

20 MR. QUEENEY: I'm sorry. About?

21 A. About the business end of how, about

Page 87

1 how that marketing program went, that's right, I

2 don't know those details. It has never been the

3 subject of discovery that I have heard of anybody

4 really trying to pursue, and I have never seen

5 documentation relating to how the deal was done

6 and how the Owens-Corning marketing of Kaylo was

7 launched from a detailed technical standpoint.

Q. Have you ever reviewed the contract

9 from 1953 by which the distribution arrangement

10 between Owens-Illinois and Owens-Corning was

11 established?

12 A. I may have seen the document, but these

13 kinds of legal documents just make my eyes glaze

14 over. I don't really grasp much from looking at

15 them.

Q. Do you know if it has been made 16

available to you?

A. I don't offhand remember whether it has

19 or not. Like I said, this is not something that

20 I would regard as -- it's not something that I

21 would remember having sat down and read and said

assistance that you are talking about, you are

2 relying on the state of affairs for 1953 to 1958;

3 am I correct?

A. Well, but I am also talking about the

5 1952 articles and articles and ads in the

5 Petroleum Engineer as backdrop for this which

7 provides some of the same language that one sees

3 in the subsequent advertising materials for the

) product.

Q. Is it your opinion that Owens-Illinois

t was providing substantial assistance to

2 Owens-Corning in 1952?

A. No.

Q. It is your opinion, as I understand it,

5 that Owens-Illinois was providing substantial

5 assistance to Owens-Corning in the marketing and 7 sale of Kaylo products from the period 1953 to

3 1958; is that right?

A. Right. And maybe in 1952, too, when

) they were setting the deal up, but I haven't seen

the specific documentation on that, so I can't

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 24 of 75

Jacques v. Keene Multi-Page Barry Castleman, 1-3-02

Page 90

- 1 oh, yeah, there's a clause in this that says that
- 2 or doesn't. These are not documents that I read
- 3 with any great interest.
- 4 Q. To the extent you were trying to find
- 5 out about that relationship in 1953, it would
- 6 appear that the contract would be a logical place
- 7 to go, though, right?
- 8 A. Well, not necessarily. I mean, the
- 9 contract contains the specific legally agreed
- 10 upon terms of the deal, but it's just a
- 11 formalization of something which is basically
- 12 explained in one sentence in Moody's Industrial
- 13 Directory, as far as I am concerned.
- 14 Q. And have you asked Mr. Queeney for a
- 15 copy of that contract?
- 16 A. No.
- 17 Q. You don't really care what it says,
- 18 right?
- 19 A. Well, it doesn't interest me. I don't
- 20 think the details of what that says would be
- 21 particularly important to me.

- 1 pioneered in the use of that language, but I
 - 2 haven't seen any correspondence between the

Page 92

Page 93

- 3 companies that constitute any discussion of
- 4 authorization in the manner that you are
- 5 raising.
- Q. So it's fair to say that you don't have
- 7 any information to suggest that Owens-Illinois
- 8 authorized the use by Owens-Corning of the term
- 9 nontoxic to describe Kaylo?
- 10 MR. QUEENEY: Objection. Asked and
- 11 answered, and also ambiguous.
- 12 A. I really can't think of anything to add
- 13 to what I have already told you.
- 14 Q. We have talked about the ways you
- 15 believe Owens-Illinois and Owens-Corning
- 16 misrepresented the health hazards of Kaylo; is
- 17 that correct?
- 18 A. Yes.
- 19 Q. Does it consist entirely with this
- 20 reference to nontoxic?
- 21 A. Well, that and the failure to put

- 1 Q. Let's go back to your opinion that
- 2 Owens-Illinois provided substantial assistance to
- 3 Owens-Corning Fiberglas in its marketing and sale
- 4 of Kaylo products.
- 5 Is it fair to say, Doctor, that that
- 6 substantial assistance, in your opinion, ended in
- 7 1958?
- 8 A. I certainly don't know of them
- 9 providing any substantial, any assistance of any
- 10 kind after 1958. I think this is more a matter
- 11 of Owens-Illinois having most critically
- 12 developed this nontoxic language in the marketing
- 13 of the product earlier and Owens-Corning
- 14 continuing perhaps after 1958, perhaps not, to
- 15 carry that on.
- 16 Q. Doctor, you have no information or
- 17 other evidence to show that Owens-Corning's use
- 18 of the term nontoxic was authorized by
- 19 Owens-Illinois, do you?
- 20 A. Well, it looks to me like that the
- 21 people at Owens-Illinois were the ones who

- 1 warning labels on the product.
- 2 Q. Well, in Exhibit 2, Doctor, you have
- 3 separated misrepresentation and failure to warn,
- 4 so I would like to follow that convention, okay?
- 5 A. Sure.
- 6 Q. When you say that it is your opinion
- 7 that Owens-Illinois and Owens-Corning Fiberglas
- 8 each misrepresented the health hazards of Kaylo,
- 9 you are talking about that they each referred to
- 10 Kaylo as nontoxic, right?
- 11 A. Right.
- 12 Q. And there's not any other
- 13 misrepresentation that you are referring to
- 14 there?
- 15 MR. QUEENEY: Objection. Asked and
- 16 answered. You are misstating his prior
- 17 testimony.
- 18 A. Nothing comes to mind in terms of any
- 19 actual statements that they put out which were
- 20 misleading.
- 21 Q. Let's talk about failure to warn then.

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 25 of 75 arry Castleman, 1-3-02 Multi-Page Multi-Page

Page 94

A. Okay. That's the next.

Q. You indicate in the addendum, as we
 have been calling it, Exhibit 2 to your opinion,
 that Owens-Illinois and Owens-Corning failed to

i disclose or warn that Kaylo insulation products

5 could cause asbestosis and cancer, right?

A. Right.

Q. And with regard to Owens-Illinois, let's start that they didn't put a warning on the product, right?

A. Right.

Q. Now, Owens-Corning eventually did put awarning on the product, right?

A. Yes.

Q. When did that happen?

A. I think the health warning went on in 1970. By health warning, I mean a warning that in some way, however understated, said that breathing the dust from the product could cause

) health damage.

Q. Was there any other warning on

1 Q. That is your term?

2 A. Right.

Q. And the 1966 language was, as far as

Page 96

Page 97

4 you know, something along the lines of don't

5 create dust?

6 A. I'm trying to remember what it was. I

7 don't think I even made a note of it because --

8 no, I don't think I did say anything about it in

9 my book. I've seen these statements. I recall

10 in my Owens-Corning file a 19, I think they call

11 it a 1966 statement on the product that said

12 something about keep the dust down but didn't say

13 what would happen to you if you breathed it and

14 then in 1970 a more, a modified statement, and

15 this is supported by correspondence that I do

16 refer to on page 612 where the company doctor,

17 Jon Konzen, is corresponding and saying they

18 really should be labeling the product from a

19 health standpoint, and this is in September of

20 1970.

21 Q. Is it your belief, Doctor, that there

Page 95

1 age 75

1 was a health warning on Owens-Corning Kaylo in

2 1970, right?

3 A. Right.

4 Q. And prior to 1970 there was a warning

5 about the creation of dust, right?

6 A. Right.

7 Q. Did the pre-1970 language also say that

8 the product contained asbestos?

9 A. I don't think so. I really don't

10 remember what it said.

11 Q. You don't include that information in

12 your book, right?

13 A. No.

14 Q. I am correct, it's not in your book?

15 A. That's correct. The specific language

16 of warnings, the only specific language of

17 warnings that I include that I remember are the

18 OSHA warning label requirement, I think, and the

19 Johns-Manville warning label which was the first

20 one to appear on widely distributed thermal

21 insulation in this country in 1964, but I don't

Owens-Corning Kaylo prior to 1970?

A. Well, they had statements on the box

like "fragile", "do not drop", stuff like that,

"use no hooks" and then smaller language, maybe something about do not create too much dust, but

in the initial round, the first round of that,

' they didn't say what would happen from breathing

the dust, so I don't count that as a health

) warning.

Q. When was that first round? When did those warnings appear?

A. The company I think claims that they started, claimed that they started to put these non-health dust warnings on around 1966, as I recall.

Q. Now, when you say "the company", there you are referring to Owens-Corning, right?

A. Right.

Q. And Owens-Corning didn't call them

non-health warnings, right?

A. Right.

Case: 3:99-cv-00475-slc Document #: 43 TM Filed: 01/08/15 Page 26 of 75 Barry Castleman, 1-3-02 Jacques v. Keene Page 98 Page 100 1 make a point of trying to reproduce information 1 make passing reference to some of that in my 2 in my book about when each of the manufacturers 2 book. In Chapter 9 I talk about the individual 3 put warnings on and what the exact language of

- Q. You mentioned Johns-Manville, their 6 product, their thermal insulation product was
- 7 Thermobestos, right, --

4 the warnings was.

- A. That is one of them, yes.
- Q. -- among other others?
- Thermobestos was the pipe insulation? 10
- A. Yes. 11
- Q. It had a warning in 1964, right? 12
- A. Yes, it did. 13
- Q. What did that warning say? 14
- A. This is on 386. "This product contains 15
- 16 asbestos fiber. Inhalation of asbestos in
- 17 excessive quantities of long periods of time may
- 18 be harmful. If dust is created when this product
- 19 is handled, avoid breathing the dust. If
- 20 adequate ventilation control is not possible,
- 21 wear respirators approved by the U.S. Bureau of

- 3 companies, and the case of some of their products
- 4 I make reference to warning labels, so there's
- 5 probably a few other companies that are in here
- 6 that there's something in there about -- I recall
- 7 there was one company I said something about them
- 8 using warning labels in 1970 because I thought
- 9 that was kind of late, and there was a specific
- 10 document that related to it. Maybe it was GAF
- 11 Corporation. I don't remember now.
- 12 Q. Doctor, is it fair to say that after
- 13 1958 you have no information or reason to believe
- 14 that Owens-Illinois and Owens-Corning agreed in
- 15 any way to sell or market Kaylo?
- A. Well, I have no specific documents that 16
- 17 speak to that point, right.
- Q. And you are aware of no sworn testimony
- 19 that speaks to that point, right?
- A. Right. 20
- Q. You are aware of no discovery answer or 21

Page 99 1 Mines for pneumoconiosis-producing dusts."

- So they were trying to teach the 2
- readers of these labels a new word, probably.
- Q. That label appeared on every box of
- Thermobestos sold after 1964?
- A. I understand that that label was used
- 7 starting in 1964 and thereafter, yes, by
- 8 Johns-Manville on Thermobestos.
- Q. Was there ever a label placed on
- 10 Pabco?
- A. I don't know. 11
- Q. Was there ever a label placed on 12
- 13 Unibestos?
- 14 A. I don't know.
- Q. Was there ever a label placed on any 15
- 16 other asbestos-containing pipe insulation that
- 17 you are aware of?
- A. Well, let's see. I believe there were
- 19 labels placed on some of these products at
- 20 various points in time, but I really don't know
- 21 the specifics. I think -- and I talk about, I

1 other litigation material that speaks to that

- 2 point, right?
- A. Right. 3
- Q. And you are aware of -- well, we
- 5 already said you have never spoken to anyone from
- Owens-Illinois, right?
- A. Right. 7
- Q. You never spoke to any Owens-Corning
- 9 employees, right?
- A. I can't recall having spoken to any. 10
- 11 Q. There was never any Owens-Corning
- 12 employee who told you that they had been in an
- 13 agreement with Owens-Illinois in connection with
- 14 Kaylo at any point in time after 1958, right?
- A. That's correct. 15
- Q. Have you ever studied the relative 16
- 17 market shares for asbestos-containing products?
- 18
- Q. Would you agree with me that 19
- 20 Johns-Manville was the dominant player in the
- 21 United States with regard to asbestos-containing

1 work that you have done as an employee as opposed

Page 104

Page 105

- 2 to a consultant. Have you ever worked as an
- 3 employee on a part-time basis for a for-profit
- 4 corporation?
- A. Aside from summer jobs before I got out
- 6 of college, no.
- Q. You have never been --
- MR. QUEENEY: Let me say one thing. I
- 9 have got to call my office sometime before 1:00
- 10 o'clock our time, so sometime between now and the
- next 20 minutes if you could stop for lunch.
- 12 MR. FISCHER: Whenever you would like 13 is fine.
- 14 MR. QUEENEY: 10, 15 minutes is fine.
- 15 A. You're going to be a while?
- 16 Q. I think we will go a while longer.
- 17 You have never been a director for a
- 18 for-profit corporation, right?
- A. No. 19

Page 103

- 20 Q. I am correct, right?
- That's correct. 21

Q. And what was your role there?

A. I was a chemical engineer in the

research center in process and product development.

Q. Other than your time period at Hercules, have you ever worked for a for-profit

A. Not as a full-time employee.

Q. How about as a part-time employee?

A. I think I have done well very limited work for companies over the years. I think as a consultant, one company came to me at some point, and they were thinking about using asbestos or buying a company that made asbestos products, and

they somehow found me, and they ran it by me, and

I told them what I knew and what I thought, and then they paid me some small sum for that.

Q. You were not an employee of that company, right?

A. No.

corporation?

products?

A. No.

A. I don't know. I mean with

asbestos-containing products generally, I'm sure

Owens-Illinois' market share was during the time

Q. We agree at least that by 1970 both

Johns-Manville and Owens-Corning sold their

asbestos-containing insulation products with what

A. Yeah. It was a minimal health warning

Q. Doctor, have you ever been employed by

that was true. With respect to specific types of

products and market shares, I don't know.

Q. Have you ever studied what

you would call a health warning, right?

A. Yes. I worked for Hercules,

Incorporated in 1968 and '69, a chemical

company. That was what I was referring to

but a health warning, nonetheless.

a for-profit corporation?

earlier this morning.

period that it was selling Kaylo?

Q. I was specifically talking about any

Q. You are not a medical doctor?

A. That's correct.

Q. You don't have any training in

4 medicine; is that correct?

- A. My only appearance in medical school
- 6 has been as a guest lecturer. My training in
- 7 medicine is not medical training, but to the
- 8 extent that medicine is part of public health, I
- 9 have training in a sense. My Doctorate is from
- 10 the Johns Hopkins School of Public Health. Many
- 11 of the students that were in my classes were
- 12 physicians. Public health is a multidisciplinary
- 13 field encompassing such things as medicine,
- 14 engineering, law and economics, and I have taken
- 15 courses on specific types of occupational lung
- 16 diseases and things like that but not in a
- 17 typical formalized conventional sense do I have
- 18 training in medicine. I have never been a
- 19 student in medical school.
- Q. You are not an industrial hygienist, 20
- 21 right?

Case: 3:99-cv-00475-slc Document #: 43 TMFiled: 01/08/15 Page 28 of 75

Jacques v. Keene Multi-Page Barry Castleman, 1-3-02

Page 106 Page 108 A. The answer would be similar as for 1 right? 2 medicine. I have had training in industrial A. I have studied outside of asbestos, but 3 hygiene in such things as the design of 3 my involvement in the study of corporate behavior 4 industrial ventilation systems, but I am not per 4 has been in the field of toxic substances, 5 se an industrial hygienist. It is just one of 5 control and public health. It goes well beyond 6 the tools of my trade that I have this kind of 6 asbestos. 7 background. Q. Would it be fair to say that outside Q. You have never worked as an industrial 8 the field of public health you have never studied 9 hygienist, right? 9 corporate behavior? A. Yes, that's right. A. That's right. 10 Q. Do you have any training in Q. I want to go back to Exhibit Number 2, 11 11 12 epidemiology? 12 and in Exhibit 2 there is a clause here about A. Yes. 13 midway through that provides "Owens-Illinois 13 14 Q. What training? 14 substantially assisted and encouraged such A. Well, I have taken a number of courses 15 conduct by Owens-Corning Fiberglas". Do you see 15 16 at the Johns Hopkins School of Hygiene and Public 16 what I am referring to? 17 Health, and I have lectured about epidemiology in A. Yes, I see what you are pointing at. 17 18 some of the presentations I have made at the Q. The "such conduct" in that clause, does 19 School of Public Health. I am constantly 19 that refer back to the, in your opinion, 20 evaluating epidemiology studies in the field of 20 misrepresentations and failure to warn? 21 regulation, the field of public health A. Yes. 21 Page 107 Page 109 Q. Does it refer to anything else? 1 protection. 1 Q. Have you ever performed or directed an 2 A. No. 3 epidemiological study? Q. Can we put a time period on that? When 3 4 did Owens-Illinois substantially assist and A. No. Q. Have you ever published an 5 encourage such conduct? A. It would be from the time that they 6 epidemiological study? A. No. 7 first got involved with Owens-Corning. I don't MR. FISCHER: If you want to break, we 8 know when it began. Formally it began in 1953. can do it now. That's fine. 9 Probably it began, you know, sometime before MR. QUEENEY: Okay. 10 that, and as far as encouraging and assisting 10 (Luncheon recess -- 12:25 p.m.) 11 after 1958, that would be based on the failure to 11 (Afternoon session -- 1:20 p.m.) 12 take any action to prevent the continuing sale of 12 BY MR. FISCHER: 13 Kaylo in ways that that would damage people's 13 Q. Dr. Castleman, you have no education or 14 health. 15 training in business organizations; is that 15 Q. Your opinion is that, Doctor, that 16 right? 16 encouragement and substantial assistance began in A. Right. 17 1953, perhaps slightly earlier if they were 17 Q. And you do not have an M.B.A.? 18 discussing the contract before it was actually 18 A. Right. 19 signed, right? 19 Q. You have never studied corporate A. Right. 20 20 21 behavior outside of the context of asbestos, 21 Q. And it is unclear on when you say that

encouragement and substantial assistance ended?

A. Right.

MR. QUEENEY: Objection. Do you want to break it out? It's a compound question. The 5 two are different.

Q. When did the encouragement and ⁷ substantial assistance end?

A. I really don't know. I just know that the failure of Owens-Illinois to take any steps) after 1958 enabled Owens-Corning to continue to sell the product without warning labels and enabled Owens-Corning to market the product as a nontoxic product.

Q. Is it fair to say, Doctor, that you are is aware of no affirmative act on behalf of 5 Owens-Illinois after 1958 that you would ¹ characterize as either encouragement or 3 substantial assistance to Owens-Corning in its) sale and marketing of Kaylo?

A. Correct.

And then do I understand your testimony

A. Right.

Q. You are simply assuming that

3 Owens-Illinois encouraged Owens-Corning to behave

Page 112

Page 113

4 in a certain way?

A. Well, that they failed to signal any

6 change of course.

Q. What investigation have you done to

8 determine that Owens-Illinois failed, as you say,

9 to signal any change of course?

A. Again, I would only be in a position of

11 seeing documents if there were any from

12 Owens-Illinois showing that Owens-Illinois did

13 try to limit the continuing harm that was going

14 to be associated with the sale of Kaylo by taking

15 some definite action, and I haven't seen any sign

or evidence that they did take any action.

Q. Will you agree, Doctor, that you 17

18 haven't done any independent investigation to

19 find out?

20 MR. QUEENEY: Objection to the term

"independent investigation".

Page 111

that it's your opinion that after 1958

? Owens-Illinois', in your opinion, failure to act

consists of encouragement, substantial assistance

in Owens-Corning's sale and marketing of Kaylo?

A. Sort of the other way around. Their

5 encouragement consisted of failure to act. They

were also owning 30 or so percent of

3 Owens-Corning while the sale of this hazardous

) product went on.

Q. It is your opinion that by doing nothing, Owens-Illinois was encouraging

2 Owens-Corning to behave in a certain way?

A. Yes. At least they were enabling them

to behave in that way.

Q. So it is your opinion that enabling

i consists of substantial assistance?

A. I don't know. Sure.

Q. Dr. Castleman, you have no information about what communication there may have been

between Owens-Illinois and Owens-Corning after 1958, right?

A. That's true in that I haven't -- you

2 know, I don't even know how I would find out

3 something like that out. Basically it would be

4 if there's any documentation that bears on the

5 subject, it would be in the possession of

6 Owens-Illinois and possibly Owens-Corning.

Q. So you just have no information one way

8 or the other, right?

A. Right.

Q. Doctor, you are not a lawyer, right? 10

11 A. Right.

12 Q. You don't hold yourself out as a legal

13 expert?

A. No, but law, as I say, as I have said

15 with medicine and industrial hygiene, is also one

16 of the things we use in public health. To some

17 extent I've had to become familiar with the use

18 of the law as a public health instrument.

Q. We have already talked about the fact

20 that Mr. Queeney drafted the paragraph in

21 Exhibit 2, right?

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 30 of 75

Jacques v. Keene Multi-Page

Barry Castleman, 1-3-02

Page 114

A. Right.

- 2 Q. And he chose the words substantially
- 3 assisted and encouraged, right?
- 4 A. He did.

1

- 5 Q. You did not choose those words?
- 6 A. That's right. I mean, these were words
- 7 that presumably apply to the way the law is
- 8 written in the State of Illinois, and it was
- 9 basically put to me do you agree with this, would
- 10 you sign a statement that says this.
- 11 Q. And when you said that you agreed and
- 12 would sign it, you are unaware of any special
- 13 legal meaning of any of those words, right?
- 14 A. Well, I mean, I read the words in the
- 15 ordinary sense of what they say in plain
- 16 English. I don't have any legal training that
- 17 goes much beyond that.
- 18 Q. And the words substantially assisted as
- 19 they appear on your report are not meant by you
- 20 to bear any special legal context, right?
- 21 A. No. They are words that I mean here in

- 1 not contending that they controlled
- 2 Owens-Corning. Certainly if Owens-Illinois told
- 3 Owens-Corning something, it would have been taken

Page 116

Page 117

- 4 seriously in the sense that they were a major
- 5 stockholder, but the extent of their possible
- 6 control over Owens-Corning isn't something that I
- 7 feel I could comment about aside from stating the
- 8 facts of the ownership that they had.
- 9 Q. You are not offering an opinion one way
- 10 or the other about whether Owens-Illinois
- 11 controlled Owens-Corning after 1958, right?
- 12 A. Right.
- 13 Q. The first line, Doctor, in Exhibit 2
- 14 provides "to clarify my prior report, I am of the
- 15 opinion that Owens-Illinois acted in concert with
- 16 Owens-Corning Fiberglas", right?
- 17 A. That's what it says.
- 18 Q. And is it fair to say, Doctor, that
- 19 then after that portion that I read, you go on to
- 20 describe the ways in which you believe
- 21 Owens-Corning and Owens-Illinois acted in

- 1 the ordinary usage of the English language, not
- 2 in any kind of a specialized legal sense, that's
- 3 right.
- 4 Q. After 1958, Doctor, we have already
- 5 talked about your opinion being based on what you
- 6 assume to be Owens-Illinois' failure to indicate
- 7 a change in course with regard to Kaylo.
- 8 Is there anything else that supports
- 9 your opinion that Owens-Illinois substantially
- 10 and assisted, sorry, substantially assisted and
- 11 encouraged such conduct by Owens-Corning
- 12 Fiberglas?
- 13 A. I can't think of anything else.
- 14 Q. Is it your opinion, Doctor, that
- 15 Owens-Illinois somehow controlled Owens-Corning
- 16 Fiberglas after 1958?
- 17 MR. QUEENEY: Objection to the term. I
- 18 ask you to define it in some sense.
- 19 A. Well, I have certainly seen in business
- 20 circles ownership of less than 30 percent
- 21 referred to as a controlling interest, but I am

- 1 convert?
- 2 A. Yes.
- 3 Q. Are there any other ways you believe
- 4 Owens-Corning and Owens-Illinois acted in concert
- 5 with respect to asbestos-containing products that
- 6 are not stated in Exhibit 2?
 - A. Well, they both were using the services
- 8 of the Saranac Laboratory. There were things
- 9 where there were opportunities for different
- 10 types of concerted action to occur.
- 11 Owens-Illinois was sponsoring research at
- 12 Saranac. Other companies were sponsoring studies
- 13 on asbestos dust.
- In 1948 I think Vorwald reported to
- 15 Owens-Illinois that, by the way, I am doing some
- 16 research for some other companies and I'm telling
- 17 you that even small amounts of asbestos fiber
- 18 surviving in the airborne dust are capable of
- 19 inducing fibrosis in experimental animals.
- 20 Q. Vorwald didn't quantify that, quote,
- 21 small amounts, right?

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 31 of 75 arry Castleman, 1-3-02 Multi-Page Multi-Page

Page 118

A. I forget the exact language he used. I

- 2 might have it here. I am referring to my book.
- 3 I make reference to a 1948 report about one of
- 4 the interim reports where the Saranac Lab was
- 5 first giving the bad news about Kaylo causing
- 6 asbestosis in guinea pigs, and the report I say,
- 7 also noted that, quote, "very small numbers of
- 8 fibers are capable of producing asbestosis".
- Q. You don't have Dr. Vorwald's writing in
- o front of you, right? You are reading from your
- 1 book?
- 2 A. Right.
- Q. And so you don't have the complete
- 4 document there, right?
 - A. Right.
- Q. Dr. Vorwald did not quantify what he
- 7 meant by small, did he?
- 8 MR. QUEENEY: Objection. Misstates the
- 9 document.
- A. Well, the number certainly doesn't
- 1 appear on page 595. Let me just take a look real

Page 119

- 1 quick. It refers also to a section in Chapter
- 2 4. I have a slightly expanded quote here. This
- 3 is on 317. I note that Vorwald reported to OI
- 4 about Saranac studies done for the asbestos
- 5 companies, another group of companies that,
- 6 quote, "a seemingly negligible proportion of
- 7 fibrous asbestos is sufficient to produce
- 8 fibrosis", and that Vorwald went on. "It appears
- that very small numbers of fibers are capable of
-) producing asbestosis. Although the development
- 1 of the lesions is delayed, the present experiment
- 2 with Kaylo is also an example of this fact".
- Q. Let me ask you again, Doctor.
- 4 Dr. Vorwald never quantified what he meant by
- 5 small or by negligible, right?
- 5 A. I don't think so. I'd have to refer to
- 7 the report to be sure, but I don't think so.
- Q. At least you don't think that he did,
- Fright?
-) A. Right.
 - MR. QUEENEY: Are you through with that

- 1 line of questions? Because I want to make an
- 2 objection. I don't want to suggest anything.
- 3 Are you through with that line of questions with
- 4 respect to that one document?
- 5 MR. FISCHER: No.
 - MR. QUEENEY: Okay. Let me know. Do
- 7 you have that document with you?
- 8 MR. FISCHER: What document are you
- 9 talking about?
- 10 MR. QUEENEY: The one he is talking
- 11 about.
- 12 A. The 1948 report.
- MR. QUEENEY: The October 30th, 1948
- 14 report.
- 15 MR. FISCHER: No, I don't have that
- 16 interim report with me.
- 17 MR. QUEENEY: Off the record.
- (Discussion off the record.)
- 19 BY MR. FISCHER:
- 20 Q. Doctor, I want to narrow my question a
- 21 little bit just so we make sure that we are on

Page 121

- 1 the same page.
- 2 In Exhibit 2 you say "I am of the
- 3 opinion that Owens-Illinois acted in concert with
- 4 Owens-Corning Fiberglas", and then you go on to
- 5 describe specific ways which you believe that
- 6 occurred, right?
- 7 A. Yes.
- 8 Q. Are there any other ways that you
- 9 believe Owens-Illinois and Owens-Corning acted in
- 10 concert other than what you have signed in
- 11 Exhibit 2?
- 12 A. Nothing comes to mind.
- 13 Q. Now let's talk about the broader
- 14 universe of people that you believe acted in
- 15 concert, okay?
- 16 A. Okay.
- 17 Q. Was there anyone else acting in concert
- 18 with Owens-Illinois and Owens-Corning in the ways
- 19 that you have described in Exhibit 2?
- 20 A. No. What is described in Exhibit 2 is
- 21 specifically the ways in which Kaylo was put on

Case: 3:99-cv-00475-slc Document.#: 43 TMFiled: 01/08/15 Page 32 of 75

Jacques v. Kecne

Multi-Page

Multi-Page

Barry Castleman, 1-3-02

Page 122

- 2 Q. You have testified before that it is
- 3 your opinion that there was a conspiracy of
- 4 silence, right?
- 5 A. Yes.

1 the market.

- 6 Q. That's not what you are talking about
- 7 in Exhibit 2?
- 8 A. No. What's in Exhibit 2 is specific to
- 9 the things that are discussed in item, in
- 10 Exhibit 2 specifically relating to Kaylo.
- 11 Q. There were many asbestos-containing
- 12 products on the market prior to 1960, right?
- 13 A. Right.
- 14 Q. Hundreds of them, right?
- 15 A. Yes.
- 16 Q. And none of them contained a warning?
- 17 A. That's right. That's why there were so
- 18 many of them.
- 19 Q. In the broader conspiracy of silence,
- 20 Doctor, is it fair to say that it's your opinion
- 21 that everybody who was manufacturing or selling

1 or warn their employees and contract employees

Page 124

Page 125

- 2 that they brought on to their premises about
- 3 these hazards.
- 4 Q. Is it fair to say, Doctor, that you are
- 5 aware of no express agreement amongst any of
- 6 these companies not to warn?
 - A. That's right. I mean, these are not
- 8 things that get written down.
- 9 Q. And you are aware of no express
- 10 agreement between Owens-Illinois and
- 11 Owens-Corning not to warn, right?
- 12 A. Right.
- 13 Q. You are aware of no express agreement
- 14 between Owens-Illinois and Owens-Corning about
- 15 anything in relation to Kaylo, right?
- 16 A. Right. Aside from the fact that they
- 17 obviously had a marketing agreement in 1953 and a
- 18 sale of good manufacturing business in 1958, I
- 19 don't know about the details of their business
- 20 arrangements.
- 21 Q. To the extent that you have the opinion

- 1 an asbestos-containing product prior to 1960 was
- 2 a participant?
- 3 A. Not everybody, but quite a few
- 4 companies were.
- 5 Q. Quite a few meaning everyone who --
- 6 well, help me out, Doctor. Where do you draw the
- 7 line?
- 8 A. I draw the line -- you know, certainly
- 9 the conspiracy of silence would include companies
- 10 that I know had actual knowledge about the
- 11 hazards of asbestos and weren't warning people
- 12 about it, weren't taking steps to protect their
- 13 own employees from it, weren't putting warning
- 14 labels on the products in any way. Those are the
- 15 main participants. And then there are other
- 16 companies that I include as participants in the
- 17 conspiracy of silence that would include major
- 18 uses of asbestos products who also demonstrably
- 19 knew about the hazards of the products, some big
- 20 oil companies and steel companies, for example,
- 21 and didn't appear to take any measures to protect

- 1 that Owens-Illinois and Owens-Corning acted in
- 2 concert, that concert of action is something that
- 3 you infer from things that you have read, right?
- 4 A. Yes.
- 5 Q. And you are not better or worse at
- 6 inferring facts then anyone else, right?
- 7 MR. QUEENEY: Objection to the form.
- 8 Do you mean someone who has read some of the
- 9 facts he has read or all of the facts he has read
- 10 over the last 25 years?
- 11 Q. You can answer that.
- 12 A. You can present different factual
- 13 material to different people, and their ability
- 14 to understand what it means is going to be
- 15 different depending on their background and the
- 16 totality of their knowledge and experience, and I
- 17 believe that my investigations of the role of
- 18 corporations in the field of occupational health
- 19 and environmental health and toxic substances
- 20 control over the past 30 years enables me to
- 21 infer with considerable insight sometimes that a

1 lot of people don't have about what's going on.

- Q. Let's just start with the abstract
- 3 question, okay? You are not a better inference
- 4 drawer than other people, right?
- 5 MR. QUEENEY: Objection. Asked and
- 5 answered. He talked about his experience,
- 7 education.
- A. If you are talking about the ordinary
- things of life, no. I'm just another citizen.
-) If you are talking about the things that I have
- 1 spent my life being trained on and professionally
- 2 knowledgeable about, then that's a different
- 3 story.
- 4 Q. For right now I am just talking about
- 5 the ordinary affairs of life. You have no
- 5 special gift with regard to drawing inferences,
- 7 right?
- 3 A. I suppose not. I mean, I bring to
- every situation my intelligence and experience,
-) but other people do the same, and if it's just
- t walking into a new train station and trying to

Page 128

- 1 understanding than the average person of how the
- 2 business world works?
- 3 A. Only in the context of occupational and
- 4 environmental health I am saying I have an
- 5 understanding of how it works.
- 6 Q. You have never studied it from the
- 7 business person's perspective, right?
- 8 MR. QUEENEY: Sorry. What?
- 9 A. I haven't studied the operation of
- 10 businesses from the perspective of business
- 11 managers. I have studied it from the perspective
- 12 of someone in the field of public health.
- 13 Q. Doctor, it's fair to describe you as an
- 14 environmental consultant, right?
- 15 A. Yes.
- 16 Q. A big part of your job is investigating
- 17 companies that are defendants in asbestos
- 18 litigation?
- 19 A. It has been at times, yes. I mean,
- 20 most of that work has been done. The Fourth
- 21 Edition of my book was published more than five

Page 127

- figure out where the street exit is, we are all kind of in the same boat.
- Q. As you have mentioned, you spent the
- vast majority of your working life studying
- 5 corporate response to occupational hazards,
- 5 right?
 - A. Yes.
- 3 Q. And you believe that that gives you a
- regreater ability to draw inferences, right, than
-) the average person?
 - A. Yes.
- 2 Q. You believe that your inferences are
- 3 better than what the average person would draw?
- A. Well, they are more qualified in the
- 5 sense that they are based on a great deal of
- 5 study and investigation over very many years and
- 7 the gradual development over those years of
- 3 certain understandings about the way the business
- > world works and public health consequences of
-) some of the things that go on.
 - Q. Why do you think you have a better

- 1 years ago, and I don't spend a great deal of time
- 2 doing investigations. Basically what we know
- 3 about Owens-Illinois, for example, has been known
- 4 for probably the last 15 years, almost all of it.
- 5 Q. A lot of which you do is talk to other
- 6 people who are affiliated with plaintiffs in
- 7 asbestos litigation?
- 8 A. That's one of the things I do.
- 9 Q. People like plaintiffs' lawyers,
- 10 right?
- 11 A. Right.
- 12 Q. Other experts who traditionally testify
- 13 for plaintiffs, right?
- 14 A. Well, I have interactions with people
- 15 like that. I don't talk to other plaintiffs'
- 16 experts a great deal about asbestos litigation.
- 17 I mean, I have dealt with Arthur Frank, for
- 18 example, on a number of occasions, but it has had
- 19 to do most recently with the problem of asbestos
- 20 in India where we both appeared at a conference
- 21 last February in New Delhi and the other problems

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 34 of 75

Jacques v. Keene Multi-Page Barry Castleman, 1-3-02

Page 130

- 1 associated with such things as the pesticide
- 2 atrazine and its hazards and uses.
- 3 Q. Earlier, Doctor, you explained that one
- 4 of the ways you learned things that you base your
- 5 opinions on is the materials find their way to
- 6 you, right?
- 7 A. Well, I was talking about corporate
- 8 documents in that sense, yes.
- 9 Q. And one of the ways corporate documents
- 10 find their way to you is that plaintiffs' lawyers
- 11 give them to you, right?
- 12 A. I am presented with corporate documents
- 13 by both sides in the asbestos litigation, but
- 14 yes, plaintiffs' lawyers and defense lawyers.
- 15 Q. And you also have received documents
- 16 from other people who have both traditionally
- 17 been associated as plaintiffs' experts in the
- 18 asbestos litigation, right?
- 19 A. Over the years, yes. That has also
- 20 happened.
- 21 Q. And you have also obtained documents

- 1 A. The ones that relate to the historic
- 2 conduct of companies involved in asbestos
- 3 litigation, I usually get paid for work on that,
- 4 but for my investigations of what's going on all

Page 132

Page 133

- 5 over the world with asbestos today, I usually
- 6 don't get paid for that. I spend more time on
- 7 that. I'm just glad that I don't have to worry
- 8 about making enough money to pay my rent and I
- 9 can afford to give away that much time.
- 10 Q. You do get paid for your testimony,
- 11 right?
- 12 A. Usually, yes.
- 13 Q. And you get paid for the investigations
- 14 that you do that relate to your testimony?
- 15 A. Usually I do, yes.
- 16 Q. It's the vast majority of your annual
- 17 income, right?
- 18 A. Yes, it is.
- 19 Q. Over the past 15 years it has probably
- 20 been 95 percent of your annual income?
- 21 A. Right. As I say, most of my public

- 1 during the course of your own investigations,
- 2 right?
- 3 A. Right.
- 4 Q. And those investigations have been paid
- 5 for by plaintiffs' counsel, right?
- 6 MR. QUEENEY: Which investigations?
- 7 His own? Plaintiffs' experts? What?
- 8 Q. You can answer, Doctor.
- 9 A. My investigations have often been paid
- 10 for by plaintiffs' lawyers. Not always. When I
- 11 was writing my Doctoral thesis, I would
- 12 occasionally investigate things that no one was
- 13 paying me to investigate. I did it as a matter
- 14 of completeness in writing my Doctoral thesis.
- 15 Of course, I do lots of investigations for which
- 16 I don't get paid by anybody. That's what I spend
- 17 most of my time on.
- 18 Q. It would be fair to say that with
- 19 regard to your investigations that relate to
- 20 asbestos in any way, you are getting paid for
- 21 those, right?

- 1 health work is modestly remunerated, and that is
- 2 what I spend most of my time on.
- 3 Q. Do you get paid for preparing to
- 4 testify?
- 5 A. I don't have to spend too much time
- 6 preparing to testify, but, yes, if there's some
- 7 hours spent on the eve of trial, I will often fly
- 8 in the night before, have dinner with the
- 9 plaintiff's lawyer or the lawyer, whoever, and I
- 10 would charge for the several hours that were
- 11 spent just sort of getting ready to testify the
- 12 next day.
- 13 Q. And you also get paid for that travel
- 14 time, right?
- 15 A. Yes.
- 16 Q. Doctor, do you do any consulting for
- 17 which you are paid that is unrelated to asbestos
- 18 litigation?
- 19 A. Oh, well, I recently worked in a case
- 20 involving the European Commission at the World
- 21 Trade Organization. The hearing was held in

arry Castleman, 1-3-02

January of the year 2000, and there were

documents before and after that had to be

reviewed and comments submitted, and I was

involved as a scientific adviser to the European

i Commission as was the case where Canada was

i challenging the ban on asbestos by France, and I

was hired as a scientific expert by one party in

the case by the European Commission defending

France, and I wound up going over to Geneva on

labors, and there periodically are small

| for.

' right?

asbestos.

honoraria and things like that that I am paid

that you talked about was related to asbestos,

A. Right. It wasn't related to asbestos

itigation in the sense that we are talking about

civil litigation here, but it was related to

one occasion, spending many hours working on the case, made the grand sum of \$10,000 for my

Q. The work for the European Commission

Multi-Page

Jacques v. Keene

Page 136

Page 137

Page 134

1 and the Collegium Ramizini in Italy, and most of

2 them I didn't get paid for, but the one at

3 Harvard I was supposed to get paid a couple

4 thousand dollars which I suppose I will

5 eventually get paid.

Q. So far you haven't been paid?

A. Not yet.

Q. What's your current rate, Doctor?

A. My current rate for litigation-related

10 work is \$300 an hour.

11 Q. Is it fair to say, Doctor, you probably

12 have been averaging about 10 trials a year for

13 the last 20 years?

14 A. Yes.

15 Q. How about depositions? How many times

16 do you think you have been deposed in 20 years?

17 A. Over 200. It has been more lately.

18 Last year was a record. I think there were over

30 depositions. I think it's because of the

increased amount of litigation and the different

21 defendants becoming involved.

Page 135

Q. And the honoraria that you mentioned,

! is that also related to asbestos?

A. No, not always. I gave a presentation

1 at Harvard this summer on -- I have been

i concerned about this problem of double standards

that some global corporations have where they

don't protect the workers in the environment in

some countries as they do in others from the same

industrial processes and products, so I have been

proposing that there be an investigation

conducted of how the leading companies prevent

the emergence of these double standards in their

global operations because most of the big

+ companies profess to not have double standards.

At least they don't count that as a matter of

corporate policy. The corporate policy says we

will have uniformly high standards of protecting

workers in the environment regardless of where we

make and sell the same products.

So I have made presentations at the International Labor Office conference in Brazil Q. When you say over 200, that is an

2 average of only about 10 a year, right?

A. Right.

Q. Do you think you have given deposition

5 testimony at roughly the same rate as trial

6 testimony over the past 20 years?

A. No. It varies, but the total is about

8 the same of trials and depositions, but the

proportions vary quite widely sometimes.

Q. How much did you earn testifying last

11 year, Doctor?

12 A. I don't know.

Q. How much did you earn the year before 13

14 that, 19 -- I'm sorry. How about the year 2000?

15 A. I think it was about 150,000, around in

16 there.

17 Q. What's the most money you have ever

18 made in a year testifying?

19 A. Between 150,000 and 200,000.

Q. Closer to \$200,000 would be the high

21 end?

20

- A. The high end might be 180 or so. 1
- Q. Do you think last year was the most
- 3 money you have ever made testifying?
- A. It might have been. I don't know.
- Q. And I mean 2001. 5
- A. Right.
- Q. You are just not sure?
- I'm not sure.
- You file tax returns, right?
- I file tax returns at the appropriate
- 11 time.
- Q. So presumably by the time you file the 12
- 13 tax return for last year, we will know the answer
- 14 to that question?
- 15 A. I will know more when I file my tax
- 16 return.
- Q. During the course of your retention as 17
- 18 an expert in the asbestos litigation you make an
- 19 attempt to read all of the materials that are
- 20 available that might be important to your
- 21 opinions?

- Page 139 Page 141
- A. I try to be prepared, but there isn't 2 usually a great deal of reading that is called
- 3 for at this stage. I mean, the book has been
- written. The research has been done for most of
- 5 these companies, certainly for Owens-Illinois.
- 6 There hasn't been anything new for at least five
- 7 years since that book was written.
- Q. You are aware of a publication called
- 9 the Asbestos Worker Magazine, right?
- A. Yes. 10
- Q. Have you reviewed that magazine for 11
- 12 information about asbestos and health effects?
- A. I've seen some issues of the magazine. 13
- 14 I haven't gone through every one.
- Q. Have you made any attempt to determine 15
- 16 when information was published in that magazine
- 17 about the health effects of asbestos?
- A. Well, I know that probably the first 18
- 19 time was 1930. There was one issue in which what
- 20 looks like a medical article was reproduced word
- 21 by word and not really translated.

Q. Have you made an attempt to determine

- 2 what information is available in later editions
- 3 of that publication about the health effects of
- 4 asbestos exposure?
- A. I've seen some issues of the magazine,
- 6 but I can't recall specifically dates and
- 7 information as to particular times.
- Q. There's nothing about that in your
- 9 book, right?
- A. I mentioned the 1930 one because of its
- 11 vintage, but I don't go on and on about more
- 12 recent things. I have things that happened after
- 13 around 1970.
- Q. Do you have any reason to believe that
- 15 the Asbestos Worker Magazine contained
- 16 information about the health effects of asbestos
- 17 prior to 1970?
- A. I think it may have. I don't recall.
- 19 The things that I am usually shown from the union
- 20 publications relate to these gatherings every
- 21 five years in 1962 and '67 and '72 where I think

- 1 Selikoff was present on at least some occasions
- 2 and gave talks. As to the magazine, the Asbestos
- 3 Worker Magazine itself, I don't recall specific
- 4 issues. If you have them, I'd be happy to look
- 5 at them and comment on them.
- O. You don't discuss those 1960s and 1970s
- 7 publications in your book, though, right?
- A. No, I don't. 8
- Q. You discuss in your book Dr. Selikoff's
- 10 publications in 1965, right?
- 11 A. Yes.
- 12 Q. And there was a conference in 1964 at
- 13 which the information that was in those
- 14 publications was announced, right?
- A. Yes. There was a conference in 1964 15
- 16 that was published in 1965.
- Q. Selikoff had been retained by the 17
- 18 Asbestos Workers Union to do the studies that he
- 19 did, right?
- A. I don't know about retained. He had 20
- 21 gotten the corporation of the union to allow him

to use some of their records. Some of their records, they had death cards for the deceased members of the union where Selikoff was able to know the names of the people and how long they had been in the union and when they started and when they died and where they lived at the time and was able to track down their death certificates more easily, so in some ways the

research.

Q. You don't know one way or the other whether he was retained? Is that what you are testifying?

collaboration with the union leadership was able

) to assist Selikoff in the performance of his

A. Retained is kind of a heavy word. If the law firm retained somebody or if a corporation retained somebody, I think I know what that means, but to say a union retained somebody, I can't recall having ever been paid by a union. I have done a lot of work with unions off and on over the years, but I have never been

- 1 A. I think they may have distributed one
 - 2 of Selikoff's articles with one of the magazines,

Page 144

Page 145

- 3 but I'm not sure.
- 4 Q. You don't have any solid information
- 5 one way or the other about whether or not the
- 6 union leadership provided the results of
- 7 Dr. Selikoff's studies to the rank and file
- 8 membership, right?
- 9 A. I vaguely remember hearing something
- 10 about maybe the union distributed a copy of one
- 11 of Selikoff's articles or printed it and
- 12 circulated it to the union locals. I don't know
- 13 how widely that was circulated.
- 14 Q. Dr. Selikoff also made an attempt to
- 15 publicize his results to the rank and file
- 16 membership, right?
- 17 A. Well, he came to these meetings, these
- 18 every five-year meetings I was talking about, and
- 19 he would talk to some of the union chiefs. I
- 20 don't know the extent to which he was able to get
- 21 to talk to what you call the rank and file union

Page 143

paid for it, so that's why I was balking at the use of the word retained.

- Q. Do you know if the union approached Dr. Selikoff and asked him to do the study?
- A. I don't know. My guess is that Selikoff went to them, but I don't really know how the whole thing started.
- Q. Dr. Selikoff's results were available to the union in 1965, right?
- A. They were available to the union leadership, I'm sure.
- Q. Do you have any reason to believe the union leadership kept them from the individual members?
 - A. No.
- Q. Do you think the union leadership is part of the conspiracy of silence that you have opined about?
 - A. No.
- Q. Do you know if the union leadership provided the information to its members?

- 1 membership.
 - Q. Is it fair to say, Doctor, that
- 3 Dr. Selikoff was trying to get the word out about
- 4 what his results demonstrated?
- 5 A. Yes.
- 6 Q. Dr. Selikoff is not, in your opinion,
- 7 part of the conspiracy of silence, right?
- 8 A. Definitely not.
- 9 Q. It's your belief that Dr. Selikoff did
- 10 all he could to try to get the word out to
- 11 workers about the health risks of asbestos,
- 12 right?
- 13 A. Well, I don't know that we could say
- 14 that, but I know that Selikoff was not shy about
- 15 giving newspaper interviews and working with
- 16 unions or at least working with this one union
- 17 and testifying at Congressional hearings and
- 18 doing other kinds of things, publishing.
- 19 Selikoff operated at many levels. He wasn't just
- 20 trying to reach people through newspaper
- 21 articles. He was starting medical journals and

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 **Multi-Page** Multi-Page Multi-Pa Page 38 of 75 Jacques v. Keene Barry Castleman, 1-3-02

Page 146

- 1 trying to transform the whole business of
- 2 publishing articles on occupational and
- 3 environmental health hazards with the creation of
- 4 the American Journal of Industrial Medicine, the
- 5 journal called Environmental Research, the
- 6 creation of the Collegium Ramizini, the creation
- 7 of the Society of Occupational and Environmental
- 8 Health. Selikoff operated at many different
- levels. He was an extraordinary individual.
- Q. And you would agree with me at least
- 11 that he was trying to communicate his findings to
- 12 the membership of the Asbestos Workers Union?
- A. To the world in general, and some of 13
- 14 that time was spent specifically dealing with the
- 15 union membership. That is, in some way, but I
- 16 don't know, you know, I don't know in complete
- 17 detail exactly what he did.
- Q. But he did make a specific effort to 18
- 19 communicate with the union membership, right?
- A. He was available to them if they called 20
- 21 him. He was available to them at these five-year

- Q. You would agree with me that those are
 - 2 criteria that are used as guidelines to determine
 - 3 when from an epidemiological perspective an event

Page 148

- 4 can be considered a cause of a disease, right?
- A. Well, they are criteria that are used
- 6 in weighing the value of epidemiological data and
- 7 assigning cause and effect, yes.
- Q. And consistency of results is one of
- 9 those criteria?
- A. Yes. I believe so. 10
- Q. You would agree with me right that a 11
- 12 case report is not the same as an epidemiological
- 13 study, right?
- A. Right. 14
- Q. And that an epidemiological study 15
- 16 carries a great deal more weight with regard --
- 17 A. Not necessarily.
- Q. As a general principle, Doctor, do you 18
- 19 agree with me that an epidemiological study
- 20 carries a good deal more weight than a case
- 21 report?

1

Page 147

- Page 149 MR. QUEENEY: Objection. Asked and
- 2 answered.
- A. It is a very vague question. There are
- 4 case reports that in the context in which they
- 5 appear in terms of the medical and scientific
- 6 literature that preceded them, that those case
- 7 reports can establish a great deal, and there are
- 8 epidemiological studies that may include large
- 9 numbers of work instead of just garbage because
- 10 they are not structured in a way that is going to
- 11 produce any useful information.
- Q. Doctor, as a principle of epidemiology, 12
- 13 would you agree with me that an epidemiological
- 14 study carries more weight than a case report with
- 15 regard to determining whether or not an event
- 16 caused an effect?
- MR. QUEENEY: Objection. Asked and 17
- 18 answered.
- A. I just don't understand the need for 19
- 20 epidemiological studies when you are talking
- 21 about cause-specific diseases like asbestosis and

1 meetings.

- Q. He spoke at their conventions, right?
- A. Right.
- Q. As a matter of fact, the study had been
- 5 done with information that had been collected
- 6 from that union?
- A. Well, the raw material, right, it was
- 8 based on studies of union members in New York and
- New Jersey at first.
- Q. Well, there was also a larger study, 10
- 11 right?
- A. And the larger studies of the union 12
- 13 membership and the broader areas of the United
- 14 States, right.
- Q. Doctor, you mentioned you have some 15
- 16 training in epidemiology, right?
- A. Yes. 17
- Q. You are aware of the Bradford-Hill 18
- 19 criteria?
- 20 A. Yes. I couldn't recite them by
- 21 memory.

mesothelioma. You don't need epidemiological studies to establish cause and effect if you already know that these are diseases that are caused by particular agents and then you find that people who install vinyl flooring from sanding the vinyl flooring with the asbestos get mesothelioma. You don't need an epidemiological study when you get a case report or two of such individuals sustaining those kinds of health effects, and in that case report in the context of having already followed studies that clearly do establish that these diseases are caused by these agents and hardly, if ever, get anything · else, it sets the stage for a case report to be very, very informative and important. And epidemiological studies, like I say, they are epidemiological studies that aren't worth the paper they are printed on.

Q. Doctor, you have changed my question a little bit. You are talking about diseases that are specifically associated with a particular

1 significant difference between an association

- 2 between an event and a disease and a conclusion
- 3 that the event caused the disease, right?
- A. Well, there is a distinction made, 5 certainly.
- O. And that's because there can be an 7 association between an event and a disease that
- 8 could be related to other causal factors, right?
- A. Right. If you studied emphysema among
- 10 coffee drinkers, you might find coffee drinkers
- 11 might have more emphysema than people who hardly
- drink coffee at all, and that's because heavy
- 13 coffee drinkers smoke more cigarettes, and if you
- 14 haven't thought about studying or controlling for
- 15 that other factor, you will get an association
- which makes no sense biologically maybe, and,
- 17 yet, you have this association.
- Q. And that effect is the classic example
- 19 that is given in some epidemiological texts,
- 20 right?
- 21 A. It might well be.

Page 151

Page 153

- agent, right?
- A. Right.
- Q. I'd ask you not to make that assumption.
- A. If you are talking about something like lung cancer, for example, which occurs in the general population but which also occurs in certain occupational groups more extensively, then yes, usually certainly you would expect you need group studies that are going to tell you more than individual case reports of one or two cases will tell you, that's right.
- O. And that would be true for any disease that has more than one known cause, right?
 - A. Right.
- Q. And it would be true for a disease for which there are some suspected causes and then also incidence of the disease that are unexplained?
 - A. Right.
 - Q. In the field of epidemiology there is a

- Q. And that would be referred to in
- 2 epidemiology as the existence of a confounding
- 3 effect, right?
- A. Yes.
- Q. And when studying epidemiology, it is
- 6 important to control for confounders in order to
- draw any legitimate conclusions about causation,
- 8 right?
- A. Well, in order to make the best study
- 10 you can, you try and control for confounding
- 11 variables. You try and structure the study so
- 12 that your exposed group and your control group
- are identical as possible except for the one
- element that you are trying to study.
- Q. And the study that doesn't address or
- 16 control for confounders is, assuming equal
- quality of both studies, not as valuable as the
- 18 study that does control for confounders, right?
- A. These questions are so vague it is
- 20 almost hard to say. As a general rule, yes. You
- 21 try and control to the extent that you can. I

Case: 3:99-cv-00475-slc Document #: 43 _™Filed: 01/08/15 ene Multi-Page Jacques v. Keene Barry Castleman, 1-3-02

Page 154

1 mean, humans are not like experimental animals in

- 2 cages where you can totally control their
- 3 exposures and assure that you can test the
- 4 effects of one variable being changed, everything
- 5 else being equal, the same water, the same air,
- 6 the same food except that the one group of
- 7 animals has been exposed to some drug you are
- 8 testing or something like that.
- Q. That is why epidemiology is a difficult 10 field, right?
- A. It's complex. I mean, there are 11
- 12 limitations in experimental studies, there are
- 13 limitations in epidemiology, and in some
- 14 situations we probably can extract more useful
- 15 information from animal data than we can from the
- 16 available human data.
- Q. It's difficult before a causal link is 17
- 18 established to figure out what events are causing
- 19 a particular disease, right?
- MR. QUEENEY: Objection to the form. 20
- 21 Can I ask when you talk about causal link, are

MR. QUEENEY: Objection. No foundation

Page 156

Page 157

- 2 as to what you are talking about at all. What
- 3 century? What product?
- A. We have reasons to suspect all kinds of
- 5 agents, and whether or not the studies will be
- 6 done is another story, and now we are finding
- 7 with this pesticide that I am interested in,
- 8 atrazine, that it causes gross deformities in the
- 9 sexual development of frogs exposed to levels, at
- 10 levels below the accepted, now accepted drinking
- 11 water approved levels by the EPA. There are a
- 12 lot of other pesticides that are out there that
- 13 are similar in structure to atrazine, and these
- 14 all ought to be tested with using the same kind
- 15 of model to see if they cause the same kind of
- 16 endocrine disruption in the reproductive
- 17 developmental problems that atrazine causes, so
- 18 it's not like there aren't a lot of things that
- 19 we have good reason to be concerned about that
- 20 should be studied. Whether they will or not in
- 21 this age of tight Governmental budgets and

- 1 you talking about cause or association? Because
- 2 you made that distinction.
- MR. FISCHER: Right. 3
- MR. QUEENEY: Is there a difference in
- 5 this question?
- MR. FISCHER: I asked about cause. 6
- MR. QUEENEY: Okay. Then you mean 7
- cause. 8
- A. Again, I'm sure there are differences
- 10 in the structure of the studies, and, sure, there
- 11 are limitations that you have in interpretation
- 12 of data depending on a lot of factors that go
- 13 into analyzing what weight to give to the study,
- 14 but Bradford-Hill said something else.
- 15 Bradford-Hill said doing nothing is also doing
- 16 something, and we don't have the luxury of time
- 17 to wait until all the T's are crossed and all the
- 18 I's are dotted before we take some action to
- 19 intervene where public health is in danger.
- Q. It's not easy, Doctor, to identify what 20
- 21 future environmental risks exist, right?

- 1 reluctance of business interests to do research
- 2 that's going to destroy markets sooner rather
- 3 than wait for somebody else to do it later after
- 4 people start showing up with some of these
- 5 developmental abnormalities, I don't know, but
- 6 there are lots of things that need to be studied
- 7 and not nearly enough research that's being done
- 8 on things that we have very good cause for
- 9 concern about.
- Q. The reason you say that these studies
- 11 need to be done, Doctor, is that we can't at this
- 12 point in time based on the knowledge available to
- 13 us determine whether or not these agents cause
- 14 these specific ailments, right?
- A. Right. There are a lot of questions 15
- 16 that don't have answers.
- Q. And before the studies are done, there 17
- 18 is simply not enough information to draw a causal
- 19 link, right?
- MR. QUEENEY: Objection as to which 20
- 21 product. No context or background. Foundation.

arry Castleman, 1-3-02

Multi-Page

Jacques v. Keene

Page 160

Page 161

Page 158

A. In the context that we are talking 2 about with things like atrazine and related 3 pesticides, that's right. We can't do anything

4 to limit public exposure to these things from a

5 practical point of view. The inertia of the

5 present situation, that is, the sale and use of

7 these products, is going to go on as it has 8 unless and until necessary research is ultimately

9 done, and public health measures are based on

) what findings come in.

5 over the Midwest.

Q. What kind of products contain 2 atrazine?

A. Atrazine is the most widely used 4 herbicide in the United States. It is used all

Q. It is used agriculturally?

A. It is used as a weed killer basically 3 along corn fields and soybeans. It is also used an other crops but most extensively on those. It) is probably the cause of the so-called dead zone

1 in the Gulf of Mexico where the Mississippi River

1 empties into the Gulf and has caused a lot of 2 defoliation of the flora that normally exist in

3 the water, and it also seems to be causing

4 prostate cancer in young workers in the plant

5 where they make this stuff.

Q. I want to ask you a little bit about 7 colon cancer.

Is it fair to say that you have not reviewed the medical literature on colon cancer?

A. I haven't looked at it real closely.

1 Others would testify about that in this case as

2 to causation as we have already discussed.

Q. You don't plan on offering any 4 testimony specific to colon cancer, right?

A. Well, I could make comments on it, but

5 I think really the testimony on causation is

7 going to come through other people. I can

3 certainly say that colon cancer is something that) has been suspected as a cancer caused by asbestos

) for quite a few years, and the Selikoff studies

appear to be the strongest epidemiological basis

1 for concluding that colon cancer is an asbestos

2 disease.

Q. You say, Doctor, that it has been 3

4 suspected for many years. Would you agree with

5 me that it is not been established that asbestos

6 exposure is a cause of colon cancer?

A. Not to this day you say?

O. Right. 8

A. There are people that argue that it

10 hasn't been. There are others that say it has.

11 I believe the World Health Organization,

12 International Agency for Research on Cancer

13 concluded that colon or gastrointestinal cancer

was established as a consequence of occupational

15 asbestos exposure.

Q. Are you drawing a distinction between 16

17 as a consequence and cause?

A. No. That asbestos causes these 18

19 things.

20 Q. Do you have an opinion about that

21 personally?

Page 159

A. Yes. I think it does cause

2 gastrointestinal cancer. Again, I am concerned

3 that more wasn't done eliminating asbestos from

4 the diet.

Q. Are you aware of studies that have been

6 done regarding ingestion of asbestos and whether

7 or not colon cancer results?

A. I know there have been some

9 experimental studies, and for the most part they

10 have produced negative findings.

11 Q. You are referring to animal studies?

12 A. Yes.

13 Q. Are you familiar with any studies

14 involving humans who have ingested asbestos?

A. I know there have been some

16 epidemiological studies, but you run into all

17 kinds of problems with those trying to look at

18 the census tracks in California where there was

19 asbestos in the surface waters and trying to see

20 if there's some kind of an association, and the

21 last of such publications was a guy named

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 ene Multi-Page Jacques v. Keene Page 162 Page 164 1 Conforti in 1983. A. The group that published at the end of Q. Are you aware that those studies showed 2 the conference proceedings, yes. 3 that there did not appear to be a causal O. It would have been Dr. Mancuso and 4 relationship between asbestos ingestion and colon 4 Dr. Wagner? 5 cancer? A. Yes. 5 A. There were other cancers that they did Q. You indicate in your book that the 7 find associated, but I don't think they find an 7 delegates to that working group would have 8 excess of colon cancer to be associated. 8 included a virtual who's who in the science of O. What about rectal cancer? 9 health effects? I don't remember. A. Yes. 10 Q. Are you familiar with any study that Q. You would agree with me that the 11 11 12 there is an increased incidence of rectal cancer 12 working group concluded that lung cancer and 13 among asbestos-exposed individuals? 13 mesothelioma were tumors that had been shown to A. Again, I think the Selikoff studies 14 be associated with exposure to asbestos dust? 14 15 did. Mancuso talked about it in a conference in 15 A. Right. 16 New York in 1964 in a discussion around page 590 16 Q. But that with regard to GI cancer, they 17 or so. He talks about several, I think three or 17 said there is some suggestion of an association 18 four cases of colon cancer that he had seen in an 18 also with gastrointestinal carcinoma? 19 asbestos factory workforce in Ohio. A. I think that's right. Q. Would it be fair to say, Doctor, that Q. They didn't say that it was a tumor 20 20 21 you have not done a comprehensive review of the 21 that had been shown to be associated, right? Page 165

- 1 literature with regard to whether or not asbestos A. Right. The evidence was more limited.
 - Q. And you quote that at page 127 of your
 - 3 book, right?
 - A. Yes. Yes, I do.
 - Q. You would agree with me that
 - 6 Dr. Mancuso wasn't in any way influenced by
 - 7 corporations that were manufacturing
 - 8 asbestos-containing products?
 - A. He wasn't working for them, that's
 - 10 correct.
 - Q. And the same goes for Dr. Wagner? 11
 - A. That's another story. 12
 - Q. In 1965 the same goes for Dr. Wagner, 13
 - 14 right?
 - A. I suppose it did in 1965. 15
 - Q. In your report, Doctor, that we have 16
 - 17 marked as Exhibit Number 1, I'd like to direct
 - 18 your attention to page 8.
 - A. Yes. 19
 - Q. Do you see the heading "Other Forms of 20
 - 21 Cancer Caused by Asbestos Exposure"?

- 2 exposure causes colorectal cancer?
- A. That's right, I haven't done the
- detailed review of all of that.
- Q. Are you satisfied that the first time
- 6 anyone suggested that asbestos exposure could
- 7 cause GI cancer was Dr. Selikoff in 1964?
- A. Well, I think that maybe Selikoff was
- 9 finding an excess of these cancers in his first
- 10 report in insulators in 1964 in his mortality
- 11 study.
- Q. That's the first time that it had ever 12
- 13 been published, as far as you know, right?
- MR. QUEENEY: The suggestion again or
- 15 are we talking about the results of an
- 16 epidemiological study?
- MR. FISCHER: The suggestion. 17
- A. I think so. I believe that's right. 18
- Q. You are familiar with the working group 19
- 20 on asbestos and cancer that was operating in
- 21 1965?

- A. Yes.
- 2 Q. That section, did that appear in the
- 3 version of your report that you sent to
- 4 Mr. Queeney?
- A. I don't think that it did. I think
- 5 that this is something that Mr. Queeney asked me
- 7 to comment on in this particular case, in
- 8 Mr. Jacques' case.
- Q. And that would have been something that
-) Mr. Queeney then added to the report and sent
- 1 back to you for your approval, right?
- A. No, no. I wrote it. He asked me to
- 3 say something about it, and I wrote this.
- 4 Q. My understanding, Doctor, was that you
- 5 had sent Mr. Queeney a copy of a report from some
- 5 previous case.
- A. Right.
- Q. And that he edited it and sent it back,
- right?
- A. Well, right. I may have said that. As
- 1 I look at this particular part, I think that this

- 1 cancer of the gastrointestinal tract has been
 - 2 demonstrated in such groups as asbestos
 - 3 insulators, right?
 - 4 A. Right.
 - 5 Q. And the quoted portion of that sentence

Page 168

Page 169

- 6 is just an excess risk of cancer of the
- 7 gastrointestinal tract that has been
- 8 demonstrated, right?
- 9 A. Right.
- 10 Q. That sentence does not provide that it
- 11 has been established that exposure to asbestos
- 12 causes gastrointestinal cancer, right?
- 13 A. I think you can read it to say that
- 14 asbestos causes gastrointestinal cancer. I don't
- 15 think that a sentence like that in a context like
- 16 that could be read any other way unless they had
- 17 some kind of a disclaimer sort of phrase in there
- 18 saying well, we see that this is an association
- 19 but we don't think it is proving a case of cause
- 20 and effect. Taken into context, that appears
- 21 that is a strong statement that cause and effect

Page 167

- 1 is the only part that was actually added in this
- 2 case, and it was added after consultation with
- 3 Mr. Queeney, and he said look, you know, I'd like
- 4 you to say something about colorectal cancer, and
- 5 I said sure, I can put in a paragraph on that.
- 5 Q. To your knowledge, Doctor, is it
- 7 legitimate to refer to colorectal cancer as one
- 3 disease rather than separate them between colon
- cancer and rectal cancer?
- A. I don't know. That's really for the
- 1 doctors to deal with. It depends on the
- 2 context. You might have epidemiological data
- 3 that's gathered in a way that makes it more
- 4 sensible to group them together because of the
- 5 underlying reporting system you are relying on to
- 5 do your study, and in other cases it might not.
- 7 I don't think that is a kind of question that can
- 3 be answered with all one answer for all uses.
- Q. In your report, Doctor, you say that
-) the conclusion of the International Agency for
- 1 Research on Cancer was that an excess risk of

- 1 has been established.
- Q. You have only given us a very small
- 3 snippet of a quotation there, right?
- 4 A. I have reduced it to report summary
- 5 form, but I'm sure that -- you know, I was
- 6 looking at the page from which that came when I
- 7 composed this paragraph, and I'm sure if you
- 8 looked at the original source, you'd find that I
- 9 was being fair and true in reporting what it
- 10 says.

15

- 11 Q. That was going to be my question,
- 12 Doctor. You were satisfied that in 1977 the IARC
- 13 had concluded that there was a causal link? Let
- 14 me end the question there.
 - A. Right. That's the way I read it.
- MR. FISCHER: Mark that as 3, please.
- 17 (Whereupon, Castleman Deposition
- 18 Exhibit No. 3, Curriculum Vitae of Castleman,
- 19 marked.)
- 20 BY MR. FISCHER:
- 21 Q. Doctor, if you would take a look at

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 44 of 75 Multi-Page Barry Castleman, 1-3-02

Page 170

- 1 what we have marked as Exhibit Number 3. Is that
- 2 a copy of your most recent curriculum vitae?
- 3 A. Yes, it is.
- 4 Q. Anything to add to that?
- 5 A. No. You got a current one.
- 6 Q. Pardon?
- 7 A. You have a current one.
- 8 Q. Thank you.
- 9 Your book, Asbestos: Medical and Legal
- 10 Aspects, is in its Fourth Edition, right?
- 11 A. Yes.
- 12 Q. Are there any plans for a fifth
- 13 edition?
- 14 A. No.
- 15 Q. Have you done any additional research
- 16 on the subject matters that are contained in the
- 17 book since the Fourth Edition was published?
- 18 A. No. I accumulate things in files on
- 19 particular companies. I accumulate files on new
- 20 companies. That kind of work goes on, but there
- 21 is no plan at this time to revise the book again.

1 to have a wartime position in the Jersey Health

Page 172

Page 173

- 2 Department, do you recall that?
- 3 A. Oh, yes. That was in the context of I
- 4 was really interested in metropolitan life, but
- 5 it had to do with Hazard's service in the State
- 6 of New Jersey during World War II, and there was
- 7 at first an interest in looking at whether there
- 8 was a health problem at the Johns-Manville plant
- 9 in Manville, New Jersey, and according to a
- 10 Metropolitan Life report, Met Life's people
- 11 discouraged I guess it was Hazard as the New
- 12 Jersey health chief, occupational health chief
- 13 from doing any investigations saying something to
- 14 the effect that they checked that plant out and
- 15 it was okay.
- 16 Q. And I didn't mean to give you a pop
- 17 quiz about that, Doctor. I know you have
- 18 testified about it before. My question is
- 19 whether or not you have done any new research or
- 20 seen any new documents about it since the last
- 21 time you testified about it?

- Q. Would it be fair to say that whatever
- 2 new information you have collected since the
- 3 publication of the Fourth Edition doesn't warrant
- 4 at this point in time a publication of a new
- 5 edition?
- 6 A. Right. It is partly a matter of my
- 7 time, but there is, of course, also very much a
- 8 matter of the quantum of information that would
- 9 be added, and I don't feel that the added
- 10 information is sufficient.
- 11 Q. You still, Doctor, on occasion will do
- 12 research for plaintiffs' lawyers, right?
- 13 A. Well, I will do research. If I find it
- 14 interesting and worthwhile, I will do it, yes,
- 15 plaintiffs' lawyers or others.
- 16 Q. Recently you had come across some new
- 17 documentation with regard to Willis Hazard; is
- 18 that right?
- 19 A. What do you mean?
- 20 Q. Some documentation addressing the
- 21 question of whether or not Mr. Hazard was suited

- 1 A. No, no. I haven't looked into that for
- 2 years.
- 3 Q. You stand by your testimony at that
- 4 time, right?
- 5 A. Yes.
- 6 Q. Are you working on any new projects in
- 7 relation to conspiracy theories?
- 8 A. No.
- 9 Q. I understand you have testified in
- 10 Bloomington, Illinois a few times, right?
- 11 A. Yes.
- 12 Q. Mr. Queeney referred you to some
- 13 testimony you had given in a Bloomington case a
- 14 little earlier, right?
- 15 A. Yes.
- 16 Q. That testimony has always been for Jim
- 17 Walker and Jim Wilder?
- 18 A. It has always been at the request of
- 19 that law firm, yes.
- 20 Q. You have been down there a couple times
- 21 even within the last few months, right?

A. I have been down there once. I guess it was a couple of times within the last five or six months.

Q. You understand, Doctor, that when you have testified in Bloomington recently that you have been prohibited from offering any opinion about whether or not a conspiracy existed?

about whether or not a conspiracy existed?

A. I don't remember that. I generally -
I have sometimes been a little bit averse to the

use of the C word simply because it is a legal

term that has different meanings in different

states, and generally what I do is testify about

the evidence of concerted action and related

things, and then it's up to the jury, following

the instructions of a judge, to decide whether or

not any claims of conspiracy are fulfilled or

not. I am not averse to using the word

a legal question, let the jury decide.
 Q. When you testify, Doctor, you typically

answer the ultimate question and just say that's

3 generally, but in some cases I prefer not to

1 offered the opinion before the jury that there

Page 176

Page 177

2 was a conspiracy or concerted action?

3 A. Well, I can't say that I recall having

4 offered a specific opinion on that point, but I

5 can't really remember being forbidden to.

6 Probably the plaintiffs' lawyers, they know what

7 the rules are, and if the judge had said that

8 this witness is not to be asked the ultimate

9 question, they don't ask it, so maybe they tell

10 me about that, and maybe they don't. Maybe I

11 just walk in, they ask me whatever questions they

12 want to ask me, I answer the questions, we go

13 through cross-examination and I get on a plane

14 and I never knew that the judge said don't ask

15 him the ultimate question because they never

16 bothered to tell me or go through any of the

17 rigmarole in the actual courtroom over it because

18 it had already been sorted out before I arrived.

19 MR. QUEENEY: Can I ask a question?

20 Can you tell him which case you are talking

21 about, if you know? If he has been there three

Page 175

1 times in this one case that you are thinking

2 about, maybe he can give you a better answer.

3 MR. FISCHER: I think we are doing just

4 fine.

5 Q. Doctor, it would be fair to say that

6 with regard to the opinions that are expressed in

7 Exhibit 2, that those are opinions you have not

8 offered in Bloomington for at least three years?

9 A. Well, I can't recall. I mean,

10 certainly this particular language here is

11 something that was structured for this case by

12 Mr. Queeney, and I don't recall the terms

13 "substantially assisted" and "encouraged", for

14 example, being used in other testimony, but

15 again, these are -- you know, there are a lot of

16 ways to skin a cat. There are a lot of ways to

17 ask a witness what you need in order to establish

18 whatever it is you are trying to establish

19 through the presentation of evidence, and I don't

20 claim to be a law scholar about what I am used

21 for when I testify as an expert witness.

1 speak to the lawyer that is putting you on and

2 get some instructions about any limitations that

3 might be put on your testimony, right?

A. Your question is complicated, but, of course, it will be told to me. If there are limitations on what I can say, that will be

7 explained to me sometimes by the judge as well as

3 the plaintiff's lawyer outside the presence of

3 the jury before the jury comes back in and the

case resumes.

Q. And do you have a recollection of being told by either Mr. Walker or Mr. Wilder that your testimony in Bloomington had been limited such that you were not to express an opinion about whether or not there had been a conspiracy or concerted action or any of the synonyms that you might use for those terms?

A. I just don't remember.

Q. Is it fair to say, Doctor, that when you have been down in Bloomington over the past two or three years testifying that you have not

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 46 of 75 **Multi-Page Multi-Page Barry Castle** Jacques v. Keene Barry Castleman, 1-3-02

Page 178

Q. Earlier, Doctor, you mentioned that

- 2 what's known about Owens-Illinois has been known
- 3 for 15 years, right?
- A. I think so. Aside from the contents of
- 5 their library which I think I heard about in 1993
- 6 or so, I don't think I have come across anything
- 7 new in 15 years or more.
- Q. It's fair to say that you haven't done
- 9 any additional investigation of Owens-Illinois in
- 10 the past five years?
- 11 A. That's right.
- Q. Would it be fair to say you have never 12
- 13 researched Owens-Illinois at all except for its
- connection with the Kaylo product?
- MR. QUEENEY: Objection as to form, 15
- 16 what that means.
- A. I think that's basically true. My 17
- 18 interest in Owens-Illinois has been limited to
- 19 the fact that they were a producer of a widely
- 20 used asbestos product, and so my investigations
- 21 of the company have been in one way or another

1 because they made competitive non-asbestos

Page 180

Page 181

- 2 products.
- Q. And that would be the fiberglass
- 4 products, right?
- A. Right. 5
- Q. So would it be fair to say that your
- 7 interest in Owens-Corning has been limited to
- 8 their connection to Kaylo, their fiberglass
- 9 products and the other asbestos-containing
- 10 products they may have manufactured?
- A. Yes. I think that about covers it.
- Q. Did you ever study what percentage of 12
- 13 Owens-Corning's business was represented by their
- 14 Kaylo business?
- A. No. 15
- 16 Would it be fair to say, Doctor, that
- 17 you have never seen an Owens-Illinois document
- 18 dated after 1958?
- 19 A. I think that's right.
- O. We talked a little bit earlier about 20
- 21 referring to Kaylo as nontoxic, right?

- 1 connected to that.
- Q. Did you ever make any attempt to
- 3 investigate what proportion of Owens-Illinois'
- 4 business was represented by the Kaylo division?
- A. No. 5
- Q. Have you ever studied Owens-Corning in
- 7 any way that was unrelated to its manufacture and
- 8 sale of Kaylo?
- A. Well, I have been interested in other
- 10 products they made. Some of their fiberglass
- 11 patents are mentioned in Mr. Berger's table, in
- 12 Mr. Berger's Chapter 6 in my book, been
- 13 interested in other asbestos products that
- 14 Owens-Corning made. They made insulating cements
- 15 in the 1940s, and this came to my attention when
- 16 I saw that they had done an industrial hygiene
- 17 analysis of a place where they were doing that
- 18 and found pretty high levels of asbestos dust, so
- 19 just in answer to your question, my interest in
- 20 Owens-Corning has gone beyond the product Kaylo
- 21 because they made other asbestos products and

- A. Right. 1
- Q. And you have reviewed what you believe 2
- 3 to be the important literature about the
- 4 reference to Kaylo as nontoxic?
- 5 A. Yes.
- Q. And you have reviewed the literature
- 7 that you believe to be important about describing
- 8 asbestos as nontoxic, right?
- 9 A. Well, there might be one article that
- 10 fits that description.
- Q. What article are you thinking of? 11
- A. I think there was one article that 12
- 13 Schepers wrote where he quibbled about whether
- 14 asbestos was toxic given that it was carcinogenic
- 15 and fibrogenic. He wasn't sure that toxic was
- 16 the right word to use.
- Q. When was that article published? 17
- 18 A. I think that was in the mid-'60s.
- Q. Do you agree that toxic can have 19
- 20 differing meanings depending on the context?
- A. Slightly different. 21

arry Castleman, 1-3-02

Multi-PageTM

Jacques v. Keene

Page 184

Page 185

Q. And you'd agree that Schepers, at least in the 1960s, was questioning whether or not toxic was an appropriate term to describe 1 asbestos, right?

A. Well, yes. He was writing in the 5 context of someone steeped in professional jargon 7 of toxic substances and all the ways in which 3 harmfulness of such materials can be subdivided) into the different types of effects that they) cause.

Q. You are aware of the threshold limit 2 values that were published in the 1940s and '50s 3 and '60s?

A. Yes.

Q. You are aware that asbestos was listed is as a mineral dust on those TLVs, right?

A. The TLVs were very inconsistent in the way they originally grouped these things, and they don't group them this way anymore, but in their early publications they would group some things by the type of effect and other things by

Page 182

1 information available regarding how the TLVs were

2 set and monitored?

A. Set and monitored?

Q. Yes.

A. I have been interested in how they were 5

6 set. There is darn little available on how they

7 were monitored. I often regard them as speed

8 limits without tickets.

Q. You are aware that the ACGIH had a

10 Threshold Limit Value Committee?

A. Yes. 11

Q. And that the committee annually 12

13 considered whether or not the TLVs should be

14 modified?

15 A. Well, they basically got together once

16 a year or twice a year at the most, and mainly

17 they would add new substances to the list.

Q. You are aware that they met at least 18

19 annually and the purpose of the meeting was to

20 determine whether or not the TLVs should be

21 modified, right?

Page 183

their origin which didn't have any consistency at ! all.

Q. It is true --

A. The example you have given is one.

Q. It's true, Doctor, that the TLVs listed

i asbestos as a mineral dust, right?

A. Right. It was listed under that heading.

Q. And there was a separate heading for) toxic dusts, right?

A. Right, but mostly these industrial hygienists would came up with this scheme in the first place. There wasn't a single doctor in the original TLV Committee. There wasn't a single physician.

Q. In your report that we have marked as Exhibit Number 1 on page 8 you have a paragraph, actually a couple paragraphs, page 8 and 9, several paragraphs on the TLVs, right?

A. Yes.

Q. Have you made it a point to investigate

A. Right. I mean, basically they were

2 there to add substances to the list. Every once

3 in a blue moon they would actually reconsider

4 whether a substance already listed needed to have

5 its exposure limit changed, but for the most part

6 they were focused on adding new substances to the

7 list of substances for which exposure limits were

8 given.

Q. You weren't present at any of these

10 meetings, right?

A. I was only present at one. 11

Q. And when was that? 12

13 A. 1988.

Q. When you say that the meetings were

15 generally designed to add new substances to the

16 list, are you speaking of any particular time

17 period of meetings?

A. I am speaking of a period of the 1940s,

19 '50s and '60s and '70s. I don't think it

20 changed as much in the '80s.

21 Q. Have you heard of a gentleman named

Case: 3:99-cv-00475-slc Document #: 43 TFiled: 01/08/15 Jacques v. Keene

Page 186

- 1 Dohrman Byers?
- A. The name rings a bell. He was an
- 3 industrial hygienist I guess in the '60s
- 4 somewhere in the Midwest, I think.
- Q. Do you know if he sat on the Threshold
- 6 Limit Value Committee of the ACGIH?
- A. I don't think he did.
- Q. Do you know if he has ever given sworn
- testimony?
- 10 A. I don't know.
- Q. Doctor, I would like you to assume that 11
- 12 he did sit on that committee for at least one
- year in the 1950s and that he has given sworn
- 14 testimony about what the committee did.
- Is that testimony that you would 15
- 16 consider to be important for the purposes of your
- 17 opinions?
- A. I would be interested in seeing it if 18
- 19 you could provide that to me. I haven't read any
- 20 transcripts of such testimony by him. And you
- 21 say he was on the committee for one year?

- Page 188 Q. That doesn't mean that they weren't
 - 2 evaluating the limits, though, does it?
 - 3 A. I mean, that doesn't in itself

 - 4 establish that fact, no, but I have looked for
 - 5 documentation on the minutes of the TLV
 - 6 Committee. I've gotten ahold of the minutes
 - going back to around 1967 or so. I have talked
 - 8 to people who were on the committee. I have
 - 9 called up people who were on the committee in the
 - 10 '60s and '70s and asked them what went on. I
 - 11 have gone to the ACGIH to see what files they had
 - 12 on the history of all this. I have looked every
 - 13 place I could to find documentation on this.
 - 14 This is an area of very detailed and serious
 - 15 investigation for me from around 1986 to around
 - 16 1993, and the conclusions I have drawn is that
 - 17 the committee wasn't really doing very much to
 - 18 actually re-evaluate or re-examine the exposure
 - 19 limits they already had.
 - In 1953 they defined what they meant by 20
 - 21 TLVs for the first time, and they said these are

Page 187

- 1 eight-hour time-weighted average exposure
 - 2 limits. They never said that before. They
 - 3 didn't re-evaluate any of the several hundred
 - 4 probably substances they had on that list before
 - 5 they did that. They just published that preface
 - 6 and definition without any reconsideration of the
 - 7 substances on the list. That was in '53.
 - Then I published my article, Corporate
 - 9 Influence on Threshold Limit Values. They took a
 - 10 lot of heat for the way, the sloppy job that they
 - 11 had been doing and led financially. Parties
 - 12 influenced the development of the TLVs, and they
 - 13 decided to revise the TLV documentation, so they
 - 14 went, and they took all of these references they
 - 15 had, things like Dow Chemical 1973, unpublished,
 - 16 and they took out all that stuff, and they bulked
 - 17 it up with more published references, but they
 - 18 didn't change any of the exposure limits on all
 - 19 those substances that they were putting in

 - 20 documentation for.
 - 21 There was one substance that one guy on

- 1
- A. I don't recall him being listed in the
- 3 references I have consulted, but if he was just
- 4 listed for one year, it could have escaped my
- 5 attention.
- Q. That would be an example of one of the
- 7 documents that hadn't made its way to you,
- 8 right?
- A. Right. Well, when you start talking
- 10 about documents of this kind, you are not talking
- about published literature. You are talking
- 12 about stuff that is exclusively available through
- 13 litigation and a community of people that share
- 14 these documents. I'd love to see the deposition
- 15 of Mr. Byers.
- Q. What's the basis for your testimony, 16
- 17 Doctor, that in the '40s and '50s the TLV
- 18 Committee was meeting essentially just to add new
- 19 substances?
- A. Because they hardly ever changed the 20
- 21 limits that they already had on the list.

the committee actually complained. He said we really need to re-evaluate this one, and they didn't want to open the can of worms saying if we start doing this for ethylene oxide, we have to do it for more of them, and it is hard enough to go through revising the documentation without reopening the whole question of whether these exposure limits are actually justified, and, of course, my central criticism had been the limits weren't justified based on what they had before, and by fancying up the documentation, all they were doing was covering up corporate influence rather than weeding it out.

- Q. What was the time period on this ethyl oxide situation?
- A. Ethylene oxide. That must have been around 1990, '91 when they were doing an extensive rewrite of the documentation.
- Q. And this move from referring to unpublished documents to referring to published studies, when did that happen?

A. Well, I think it was 1991 when they published the issue of the -- with the 1986 TLV documentation that I went through and I found that over a hundred of the 600 or so substances in the list had a critical reference in there, that was an unpublished corporate communication, and once I put that out, then they decided they were going to clean up the documentation when they republished it, so it was the next time around, and I think that was 1991.

- Q. Would it be fair to say, Doctor, that you don't have any information one way or the other about what was discussed by the TLV Committee in the 1940s?
- A. Right. There's no surviving minutes I have ever seen, and the people I have talked to, I never talked to people that were involved with it in the 1940s. I don't know if Harvey Elkins went back that far, but in any case, if they were, they didn't remember anything that far back that was of any value, so all you can go by is

Page 192

- 1 the documentary record that I have been able to
- 2 find, and, as I say, I would be very interested
- 3 in this deposition of this old industrial
- 4 hygienist you are talking about.
- Q. Would it also be fair to say, Doctor,
- 6 that you have no information one way or the other
- 7 about what was discussed by the TLV Committee
- 8 during the decade of the 1950s?
- A. No. I can only look at the documentary
- 10 record of what they produced in terms of the
- 11 TLVs. There may have been some correspondence I
- 12 found. One of the things that I did was go to
- 13 the U.S. Government office where the chairman of
- 14 the TLV Committee for many years worked, and his
- 15 pay stub was with the Federal Government, and he
- 16 accumulated a substantial amount of file material
- 17 that was still in the possession of the
- Government when I decided to do this
- 19 investigation, so one of the things I did was go
- 20 to Cincinnati and look at the files of
- 21 Dr. Stokinger, S-T-O-K-I-N-G-E-R, but there are

Page 191

- 1 few documents I got that may have dated from the
- 2 1950s relating to correspondence with companies
- 3 about one TLV or another.
- Q. Is it fair to say, Doctor, that at
- 5 least with regard to what the TLV Committee was
- 6 doing in the '40s and '50s, that you don't have
- 7 an opinion one way or the other about whether or
- 8 not they were putting forth a good faith effort
- to announce a threshold limit value that was
- 10 consistent with their definition of that term?
 - A. Well, I mean, this question is really
- 12 vague. Good faith is fine, but good faith
- 13 doesn't protect people. Good information helps a
- 14 lot more than good faith, and these were people
- who were not really reviewing all the medical and
- scientific literature that was available at the
- time that they were publishing these limits. The
- original limits that they published seemed to
- have been assembled from lists of Government
- 20 lists of exposure limits that had been developed
- 21 in some of the more advanced states like Oregon

1 and California, New York, and so they'd go

- 2 through these lists of exposure limits and kind
- 3 of assemble some kind of a composite list of
- 4 limits for a hundred or 150 chemicals, and that
- 5 was how they started, was almost by taking stuff
- 6 from these, by being a secondary reference, if
- 7 you will, for places where somebody already had
- 8 done the work of picking a number, and then they
- 9 started doing it themselves. They'd sit around
- 10 the table and play God and pick numbers sometimes
- 11 setting occupational exposure limits for
- 12 pesticides based on lethal dose exposure tests in
- 13 rats where they had absolutely no chronic
- 14 toxicity information at all about the stuff but
- 15 just on the basis of whether acute exposure to
- 16 this one was worse than acute exposure to that
- 17 one and would kill you right away if you were
- 18 exposed to enough of it, and they would set human
- 19 exposure limits for lifetime exposure 40 hours a
- 20 week with absolutely no additional information
- 21 except how much it took in the air to cause death

1 hygiene survey, say you ought to do something

Page 196

Page 197

- 2 about all the unguarded belts and machinery
- 3 people could get their arms caught in and maybe
- 4 try and talk some businessman into spending a
- 5 couple hundred dollars on some sheet metal, but
- 6 they didn't have a whole lot of -- well, it was a
- 7 different era is what I am trying to describe,
- 8 and so the people from that era who were setting
- 9 these exposure limits, they might sit on the TLV
- 10 Committee one week, and the next week they'd be
- 11 back in Ohio dealing with factories that were
- 12 using the same substances, and it must have
- 13 crossed their minds that if they set an exposure
- 14 for lead dust that was lower than the levels
- 15 prevailing in the lead smelter down the road from
- 16 their Government office, that they would be
- 17 setting up a kind of a contradiction that might
- 18 have serious problems both for them and the local
- 19 company. Surely they were often mindful of that,
- 20 and I think that the TLVs reflected the times,
- 21 reflected the attitudes. It's kind of a complex

- 1 to 50 percent of the rats that were exposed to it
- 2 within one week of their exposure.
- 3 Q. Dr. Castleman, do you have any evidence
- 4 to suggest that the people who were on that TLV
- 5 Committee in the '40s and '50s were not dedicated
- 6 to worker health?
- 7 MR. QUEENEY: Objection to the term
- 8 "dedicated to worker health".
- 9 A. Yeah, that's a real vague term. Some
- 10 of these were Government bureaucrats, with all
- 11 respect for the Government, were not always, you
- 12 know, the people that I would feel real
- 13 comfortable with. Some of the old public health
- 14 crowd was much closer to business interests and
- 15 industry than people that came along in the
- 16 1970s. That's just maybe because the times were
- 17 like that, that they didn't really have any power
- 18 or influence or laboratories or laws to make
- 19 these companies behave, and the only ways that
- 20 they could try and get them to do anything was by
- 21 persuasion. You go in and you do an industrial

- 1 thing. They might have been in a sense public
- 2 servants and not in any way corrupt but still
- 3 people who were not pushing real hard and maybe
- 4 not terribly knowledgeable about the hazards that
- 5 they were sitting around this table writing
- 6 exposure limits for.
 - Q. Let's do it that way. Let's use your
- 8 words. Is it fair to say that you don't have any
- 9 information that the people who sat on the TLV
- 10 Committee in the '40s and '50s were corrupt?
- 11 A. Right. I don't. I mean, a few of them
- 12 were corporate consultants like Vorwald, like
- 13 Drinker, like Paul Groce later on, but most of
- 14 them, their regular jobs, the day-to-day jobs
- 15 were as Government officials, not as corporate
- 16 consultants. Some of them were academics who did
- 17 a lot of corporate consulting, some who didn't.
- 18 Q. Just being a corporate consultant
- 19 doesn't make a person corrupt, does it?
- 20 A. No.
- 21 Q. You agree with me or not?

ase: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 51 of 75 **Nulti-Page** Jacques v. Keene arry Castleman, 1-

A. Oh, I agree with you that that doesn't 2 in and of itself establish that someone is 3 corrupt.

Q. You don't have any information or 5 evidence that the TLV for asbestos during the 5 '40s and '50s was subject to any unscientific 7 influences?

A. Look, it was basically a case of neglect just like all the other TLVs. They had) some older exposure limit that had been

1 recommended back in the 1930s by some guy in the

2 public health service or the California

3 Government or by somebody else, and they adopted

‡ this number, and they never gave it another

5 thought, and then they went on to put some other

5 substances on the TLV list. It was not something

7 that these people devoted a tremendous amount of

3 time and attention to. They had dozens and

dozens of substances. You know, industry was

) introducing hundreds of new materials on a large

scale in this country every year back in those

Page 198

1 asbestos during the '40s and '50s was not subject

Page 200

Page 201

2 to any improper or corrupting influences that you

3 know of?

MR. QUEENEY: Objection to the term

"improper". You need to define that.

A. Right. I mean, it's a case of --

7 Q. It is a case of neglect, as you say?

A. More a case of neglect more than

9 anything else. It is like trying to determine

10 the difference between incompetence and mendacity

11 from the results of something. Sometimes it's

12 not easy.

Why don't we take a break. 13

14 Q. Okay.

15 (Recess taken -- 3:03 p.m)

16 (After recess -- 3:05 p.m.)

17 BY MR. FISCHER:

18 Q. Dr. Castleman, can we agree that

19 responsible industrial hygienists were relying on

20 the TLVs in the 1950s?

21 I suppose a few of them were.

Page 199

Q. You mentioned earlier the Saranac Lab,

2 industrial hygiene services for Owens-Illinois,

3 right?

A. Yes.

Q. You are aware that Saranac directed

6 Owens-Illinois to the TLVs as safe levels of

7 exposure, right?

MR. QUEENEY: Objection.

A. No. They put it a little differently.

10 Dr. Vorwald said you can't rely on the TLVs as

11 being complete protection from health hazards.

12 Where did he say that? It was in the report on

13 the Kaylo division plant which I referenced on

14 page 596. Probably it is in Chapter 4. Yes. It

15 is referenced with a quote. I even remember the

16 page number. It is on page 9 in the original

17 report which I'm sure you have, but let me see if

18 I can find the quote. Yes. It is on 317 where

19 Vorwald is writing about the reliability of the

20 TLVs for asbestos and silica, writing about his

21 industrial hygiene survey at the Sayreville plant

days, and the TLV Committee, maybe they would be 2 adding 10 or 15 substances to the list, 20

3 substances to the list each year.

Q. Doctor, would it be fair to say that 5 with regard to your conclusion that the TLV 5 Committee never gave a TLV another thought after

it was established, that you don't have any

information or evidence that demonstrates that

that's true for the 1940s and '50s?

A. I mean, I am using that as a kind of figure of speech. Obviously there are a few TLVs like benzene that did get lowered on some

occasions, but that is the exception, not the

I rule. My information is based on looking at what

5 they did because there really isn't much else 5 unless you are lucky enough to come up with an

7 occasional deposition transcript or contributed

3 article, but that would be published, and I have

looked at everything that has been published on

) this, I think.

Q. Can we agree, Doctor, that the TLV for

- 1 in New Jersey to the people at Owens-Illinois,
- 2 and the quote says "the maintenance of the
- 3 working environment in a condition which conforms
- 4 to regulations promulgated by local health
- 5 agencies or which is in accord with accepted
- 6 standards of the practice should not be
- 7 considered as a complete protection for a worker
- 8 from acquiring a disease as the result of his
- 9 occupation." So I think that's a very clear
- 10 warning not to consider the TLVs safe.
- Q. Saranac still referred, though, to the 11
- 12 TLVs, right?
- A. They also listed them as a basis for 13
- 14 comparison in the same report, yes.
- Q. And the clear suggestion there is that 15
- 16 when you are setting up your industrial hygiene
- 17 program and obtaining your industrial hygiene
- 18 program, you should make sure that exposures are
- 19 at lowest levels?
- A. Well, you should make sure exposures 20
- 21 are not above the levels. It doesn't mean that

1 the levels are safe. It means above they are

1 among the workers. To go back 10 years before

Page 204

Page 205

- 2 that, back in the early '70s, I used to hitchhike
- 3 a lot, and I would take my vacations by
- 4 hitchhiking across the country, and one of those
- 5 years I decided to raise the question with people
- 6 who would pick me up -- you'd get long rides with
- 7 people -- and after about an hour or so somehow
- 8 the subject of asbestos would work its way into
- 9 the conversation just to see if the person that I
- 10 was riding with knew what asbestos was and
- 11 whether that person, if they knew what it was,
- 12 did they know it was harmful, and I was really
- 13 quite surprised because I had been, by 1973 I had
- 14 been getting lots of calls from newspapers and
- 15 other media outlets, and I was seeing all these
- 16 stories that were coming out in the media. I was
- 17 working and living in Washington, and I got the
- 18 sense that the word was out. I'd get rides with
- 19 these people that didn't know anything about
- 20 asbestos. They didn't even know what it was, and
- 21 the ones that knew what it was, most of them

Page 203

- 1 didn't know it was dangerous, and years later
 - 2 documents surfaced in the asbestos litigation,
 - 3 and sure enough, the asbestos industry had
 - 4 conducted its own surveys at around the same
 - 5 time, and they did a survey, and they found that
 - 6 only 22 percent of all Americans were aware that
 - 7 asbestos was hazardous to health.
 - Q. What year was that? 8
 - A. This was 1973. And this is based on a
 - 10 survey that the Asbestos Information Association
 - 11 had done, and this was presented at a meeting of
 - 12 the Asbestos Information Association and the
 - 13 Asbestos Textile Institute, and in the words of
 - 14 the guy presenting it, this was the good news.
 - 15 Q. What page are you referring to there?
 - A. 818. 16
 - Q. Doctor, by 1983 asbestos-containing 17
 - 18 insulation products had been replaced with
 - 19 non-asbestos-containing products, right, in the
 - 20 United States?

21

A. Most of them. The pipe covering and

- 2 definitely hazardous.
- Q. I want to ask you a little bit about
- 4 the state of knowledge in 1983. By 1983 you had
- 5 already begun testifying, right?
- A. Yes.
- Q. You agree with me that by 1983 it was
- 8 common knowledge that asbestos could be a human
- carcinogen?
- MR. QUEENEY: Object to the question
- 11 only in the sense that you don't define the
- universe of whose knowledge.
- A. I mean, it was widely known that 13
- 14 asbestos could cause cancer and that it was a
- 15 dangerous material.
- Q. It was certainly widely known in the 16
- 17 medical community?
- A. Yes.
- Q. It was certainly known, widely known in 19
- 20 the community of asbestos workers?
- A. I don't know how widely known it was

arry Castleman, 1-3-02

Multi-Page

Jacques v. Keene

Page 208

Page 209

Page 206

1 block thermal insulation were no longer made with 2 asbestos by that time in the U.S.

- Q. And we mentioned earlier that on the 4 Johns-Manville thermal insulation products, at 5 least there was a warning placed on those
- 6 products as early as 1964, right?
 - A. Right.
- Q. The OSHA permissible exposure levels
- 9 for asbestos were first promulgated in 1971,
- 0 right?
- A. The emergency standard was in '71 at 2 the end of the year and then the so-called 3 permanent standard in '72.
- Q. And that PEL declines consistently 5 throughout the 1970s, right?
- A. Well, just one time. OSHA, they have a 7 duty to protect workers in the setting of 8 standards, and the rest of the things they are 9 authorized by Congress to do, but they also have o to set standards which aren't technologically

1 protection and economics, OSHA issued a standard 2 in 1972 that set five fibers per cubic centimeter

3 as the allowable exposure limit, the PEL, the

1 feasible, and so in trying to balance health

- 4 permissible exposure limit, and said that this
- 5 has to go down to two fibers per cc in 1976, and
- 6 this was a very clear example of the limitations
- 7 of OSHA's standards in protecting health because
- 8 they knew they were going to have to get sued and
- 9 go all the way to the Supreme Court to defend
- whatever standard they published, and obviously
- 1 they didn't assume that the human body was going
- 2 to become any different than its susceptibility
- 3 to asbestos-related disease on July 1st, 1976
- 4 when exposure limits were said to change. Sorry
- 5 for the long answer.
- Q. That's okay.
- From the perspective, Doctor, of an 8 asbestos worker, the OSHA regulations, the 9 emergency standard, as you called it, was new in o 1971, right?
 - A. Right.

Q. And you would expect that an asbestos

2 worker would be aware that that change had been

- 3 made, right?
- MR. QUEENEY: Objection. No
- 5 foundation.
- A. I would assume that a lot of asbestos
- 7 workers were aware of it, but I wouldn't assume
- 8 that they all were. I don't know how long it
- 9 took people to get any idea that there was really
- 10 some significant change going on in the world
- 11 with the creation of OSHA and the whole idea that
- 12 there was now going to be a Governmental agency
- 13 charged with protecting workers from occupational
- 14 safety and health hazards. That was really
- 15 something very new in this country in 1971.
- Q. Right. It certainly would have a 16
- 17 material effect on workers, right?
- A. Over time it had an effect. 18
- 19 Q. And as with the promulgation of that
- emergency limit, there would have been a
- 21 significant impact on the way that asbestos

Page 207

1 workers did their jobs, right?

- A. Not necessarily. Publishing
- 3 regulations in the Federal Register is a lot
- 4 easier than getting out there, enforcing them
- 5 across the country.
- Q. When did OSHA get out and start
- 7 enforcing the regulations?
- A. When did they get out? 8
- 9 Q. Yes.
- A. Oh, that took time. In Maryland I 10
- 11 think they didn't try to do it by the Federal
- 12 Government going all over the country. They
- tried to do it by delegating state agencies with
- 14 the authority to be the, in this state, Maryland,
- 15 equivalent of OSHA, so there would be a Maryland
- 16 OSHA set up, and they'd do Cal OSHA in California
- and do it over the entire country, but it took
- 18 years to staff up these groups.
- In the State of Maryland when I was an
- 20 air pollution control official in 1972 we had a
- 21 vast floor of people doing air pollution control,

1 and in the far corner of the floor were a couple

- 2 old guys and a secretary who were supposed to be
- 3 protecting all the workers from the health and
- 4 safety hazards in the State of Maryland, so this
- 5 is what they started. They had to completely
- 6 staff up Maryland OSHA agency, and this took
- 7 several years. It wasn't probably until '73 or
- 8 '74 until they had anything approaching full
- 9 staff and an agency that was in place to then go
- 10 out there and start doing some serious
- 11 inspections.
- 12 Q. Would you agree with me, Doctor, that
- 13 by 1974 an asbestos worker would have felt the
- 14 impact of the OSHA regulations?
- 15 MR. QUEENEY: Objection.
- 16 A. Not necessarily. It really depends on
- 17 who that worker was employed by and what scrutiny
- 18 they may have been coming under from the
- 19 Government. The Governmental agencies, the
- 20 Government inspections were really pretty
- 21 limited. If you worked for some small

1 health and safety hazards there are so many of

Page 212

Page 213

- 2 them. I remember going to Bethlehem as an air
- 3 pollution control official in 1973, and I was
 - 4 afraid to walk around in that place it was so
- 5 terrifying. With the noise and the scale of huge
- 6 cranes and trucks and the steam vents blasting
- 7 out around you, you got the feeling that
- 8 something could blow up anywhere any time, and
- 9 then there were, of course, the insidious health
- 10 hazards like asbestos and the smoke and the
- 11 emissions from all these industrial processes all
- 12 around, so it wasn't as if the Government went
- 13 out there and concentrated on asbestos when OSHA
- 14 was created. They had all kinds of things to
- 15 deal with.
- 16 Q. Asbestos was one of the things they had
- 17 to deal with, though, right?
- 18 A. Right. I just can't say -- your
- 19 questions are questions that basically call for
- 20 some kind of a general conclusion on what was
- 21 going on in this country everywhere, and there's

- 1 construction contracting company as an insulation
- 2 worker or something like that, they might have
- 3 taken a long time to get around to you. The OSHA
- 4 inspectors would have rightly been concerned
- 5 first with Bethlehem Steel and in some of the
- 6 other major employers where industrial health and
- 7 safety hazards were well known to exist.
- 8 Q. That is an excellent example. Would
- 9 you agree with me that an asbestos insulation
- 10 worker working at Bethlehem Steel would have felt
- 11 the impact of the OSHA promulgations no later
- 12 than 1975?
- 13 MR. QUEENEY: Objection. No
- 14 foundation. It calls for speculation, and you
- 15 are misstating his evidence. He talked about
- 16 employers, not about insulation workers.
- A. Indeed OSHA, they weren't just looking
- 18 for asbestos. They were looking for all kinds of
- 19 health and safety hazards. When you talk about
- 20 health and safety hazards in a steel mill, you
- 21 can go through the whole damn alphabet with

- 1 no way to say that. Some places the Government
 - 2 inspectors were, they might have had a guy that
 - 3 was doing something about asbestos and enforcing
 - 4 the asbestos standard. That person, even he had
 - 5 a limited, he or she had a limited amount of time
 - 6 to devote to this, a limited amount of laboratory
 - 7 backup to do air sampling and analysis, a limited
 - 8 amount of lawyer backup to go out and issue fines
 - 9 and process citations. It's impossible to answer
 - 10 the kinds of questions you are asking me about
 - 11 when an asbestos insulation worker should
 - 12 definitely have known all about OSHA absent any
 - 13 more information in the question about where the
 - 14 guy worked or -- and even if you had the most
 - 15 elaborate question, I probably couldn't answer it
 - 16 if you are talking about stuff that went on in
 - 17 Illinois in the 1970s.
 - 18 Q. You are trying to cut me off there
 - 19 which is fine. Let me ask it to you this way,
 - 20 Doctor, and see if we can reach some language
 - 21 that we can agree on.

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 55 of 75 arry Castleman, 1-3-02 Multi-Page Jacques v. Keene

Page 214

Is it fair to say that although you
cannot offer an opinion with regard to any
specific incidence, that an asbestos worker
working in the United States in 1975 should have
felt the impact of OSHA's PELs for asbestos by
that point in time?

that point in time?

MR. QUEENEY: Objection to the form of the question. The question doesn't address whether you are talking about an inspection, whether you are talking about a reduction in the amount of dust at Bethlehem Steel or anything else. No portion is defined or there is no foundation for it.

whether you are talking about a reduction in the amount of dust at Bethlehem Steel or anything else. No portion is defined or there is no foundation for it.

A. I think they would have felt the impact if only because of the liabilities that were already becoming apparent to manufacturers of asbestos insulation. The manufacturers of Kaylo and similar products didn't wait for EPA to ban asbestos and insulation products to stop using it. They were already realizing that they are going to dig a hell of a hole for themselves in

1 warnings on the labels, yes.

Q. But there were labels that were

3 required by OSHA, right?

4 A. Right. On some products.

5 Q. And were those required for products

6 that were being sold or all products that were in

Page 216

Page 217

7 place?

8 A. Well, just for products, new products

9 being sold. I wouldn't think that they were

10 talking about dealing with stuff that was already

11 like insulation already on pipes.

2 Q. Doctor, this is a subject that you have

13 testified about before, and I don't want to do

14 the usual run-through on it, but you have given

15 some testimony about the dust jacket on the first

16 edition of your book, right?

17 A. Right.

18 Q. And you have testified that you didn't

19 author the words for the dust jacket, right?

20 A. Right.

21 Q. And correct me if I am wrong, but the

Page 215

1 dust jacket indicates that your book would be

2 particularly helpful to a lawyer in an asbestos

3 case who was trying to prove his case, right, --

4 A. Something like that.

5 Q. -- suggesting that your book is

6 particularly helpful to plaintiffs' layers,

7 right?

8 A. Or at least it could be read that way,

9 yes. I didn't think that the language was

10 balanced or fair to me.

11 Q. And as you said, you didn't write that

12 language, but the publisher did?

13 A. Right.

14 Q. And the publisher put it on the dust

15 jacket, right?

16 A. They put it on the first dust jacket

17 right, the First Edition.

18 Q. The publisher was the distributor of

19 the book?

21

20 A. Sure.

Q. You were the author of the book,

terms of long-time liability and that they better reformulate those products as soon as they could.

Q. And the EPA had --

A. So there were a number of things that were going on that the workers might not have been aware of, but they were the beneficiaries of some of those things. The individual workers might not known anything was happening, and

suddenly they are handling new material that is
 not asbestos-containing material because of

forces that are going on that they don't even

2 know about.

Q. OSHA also had labeling requirements,

right?A. Yes. Very mild labeling requirements.

Not the kind of stuff that would have grabbed you.

Q. When you say "mild", you are referring to the language required in the label?

A. I mean the asbestos companies were successful in getting OSHA not to require cancer

Page 218 Page 220

- 1 right?
- 2 A. Right. As they explained it, they
- 3 owned the book. I was just the author.
- 4 Q. And you believe that what the publisher
- 5 said about your book shouldn't be attributed to
- 6 you because you didn't write it, right?
- A. Well, I told them I'm going to hear
- 8 about this for the rest of my life, and so far I
- 9 have been correct, and I told them it was wrong,
- 10 and eventually they did change it. After two
- 11 years later, we had a Second Edition. I said
- 12 look, this has now been accepted as a Doctoral
- 13 thesis by Johns Hopkins, will you change the
- 14 language on the dust cover to be more even handed
- 15 to me, and they did.
- 16 Q. It's your opinion, Doctor, that those
- 17 statements are not fairly attributable to you?
- 18 A. Right.
- 19 Q. You'd agree that the manufacturer of a
- 20 product isn't responsible for what the
- 21 distributor says about it, right?

- 1 MR. QUEENEY: Objection to the
- 2 testimony.
- 3 A. I think they were. I think that the
- 4 nontoxic language was originally introduced by
- 5 Owens-Illinois in its own materials in 1952 that
- 6 I talked about and that this was basically copied
- 7 in materials that carried both companies' logos
- 8 in 1956.
- 9 Q. Do you have any reason to believe,
- 10 Doctor, that it was anything more than
- 11 Owens-Corning simply copying the words that had
- 12 been previously used?
- 13 A. Even if that's all it was, I think
- 14 Owens-Illinois bears a substantial responsibility
- 15 for the use of that language.
- 16 Q. Just so I am straight then, it is your
- 17 opinion that even if Owens-Corning used the term
- 18 nontoxic without permission or input of
- 19 Owens-Illinois, that Owens-Illinois still bears
- 20 responsibility because it had used the term in
- 21 1952?

Page 219

- A. That's a different story. I mean, if
- 2 the manufacturer has told the distributor that in
- 3 no way you can tell the people that this product
- 4 is nontoxic, then maybe the manufacturer has
- 5 little responsibility whereas if the manufacturer
- 6 is in cahoots with the distributor in using that
- 7 kind of language to sell the product, that's the
- 8 extreme opposite end of the scale.
- 9 Q. Are you saying that you told the
- 10 publisher before the publication of the dust
- 11 jacket they shouldn't use that language?
- 12 A. Yes.
- 13 Q. We talked about Owens-Illinois and
- 14 Owens-Corning. You just used the example as
- 15 being in cahoots. I think we talked about this,
- 16 although you have used a slightly different
- 17 term.
- Can we agree that you don't have any
- 19 evidence that Owens-Illinois was in cahoots with
- 20 Owens-Corning's use of the term nontoxic in
- 21 1956?

- MR. QUEENEY: Objection. It is not his
- 2 testimony. He referred to, for example, both the
- 3 trademarks.
- 4 A. I don't know how you can establish that
- 5 what Owens-Corning -- first of all, there are
- 6 several things: The marketing of the product may
- 7 or may not have been done exclusively by
- 8 Owens-Corning without input by Owens-Illinois.
- 9 Q. You don't have any information one way
- 10 or the other, right?
- 11 A. Let's give Owens-Illinois the benefit
- 12 of the doubt there and say Owens-Illinois didn't
- 13 have anything to do with the publication of that
- 14 brochure in 1956. Still the fact that
- 15 Owens-Illinois had pioneered in the use of that
- 16 language means to me that Owens-Corning didn't
- 17 just pick it out of the air. They didn't just
- 18 make that up themselves. They were influenced by
- 19 Owens-Illinois in the selection of that very
- 20 seriously misleading language in the promotion of
- 21 the product. If Owens-Illinois hadn't done it

- 1 first, then you might have a chance to talk me
- 2 into saying that Owens-Corning did this on their
- 3 own and maybe somehow Owens-Illinois wasn't
- 4 responsible in any way. That's a stretch, but I
- 5 could see maybe, but not with this stuff from
- 5 1952 where Owens-Illinois is using this nontoxic
- 7 language in stuff that they completely
- 8 controlled.
- Q. So that we are clear, Doctor, and I
-) just want to make sure we are clear on it, your
- 1 opinion is that even if Owens-Corning did it
- 2 independently, meaning without consent or input
- 3 or permission of Owens-Illinois, that
- 4 Owens-Illinois still bears responsibility for
- 5 Owens-Corning's use of the term nontoxic in 1956
- 6 merely because they had used the term in the same
- 7 context in 1952?
- MR. QUEENEY: Objection.
- A. Not only because of that but also
-) because of the fact that Owens-Illinois was,
- 1 after all, sharing in the profits that accrued

1 from this market, that Owens-Illinois --

- Page 224 1 commit mass murder on the public was hire some
- 2 dummies to go and market their product for them
- 3 who were only good at sales and didn't know
- 4 anything about the hazards of the product and
- 5 didn't tell the consumer about the hazards of the
- 6 product, that would just be an invitation to
- 7 social disaster to have a legal situation where
- 8 that was sufficient to just go and hire some guys
- 9 to sell your product for you and thereby launder
- 10 all responsibility for misrepresentations
- associated with the product that you were, after
- 12 all, profiting from the manufacture and sale of.
- Q. And you have no idea whether your 13
- 14 opinion is consistent with Illinois law, right?
- A. That's right. 15
- Q. Doctor, referring to the last page of 16
- 17 Exhibit 1, you talk about or you have the
- 18 statement "that was what was available in the
- medical libraries to anyone who knew how to spell
- the word asbestosis."
- 21 A. Right.

Page 223

- 2 Owens-Corning might have been selling it, but
- 3 Owens-Illinois was selling it to Owens-Corning,
- 4 that they were both profiting by moving these
- 5 products into the channels of commerce, and
- 5 Owens-Illinois bears the responsibility, in my
- 7 opinion, even in the kind of scenario you are
- 8 drawing for assuring that whoever they delegate
- 9 or hire to market their products isn't
- misrepresenting them in such a serious manner as
- 1 that. I don't see how Owens-Illinois can
- 2 completely escape responsibility given that they
- 3 were producing and profiting from the sale of the
- 4 product at the same time that Owens-Corning was
- 5 charged with the distribution.
- Q. And when you say responsible, you are 7 expressing your own opinion as opposed to some
- 3 attempt to give a legal opinion, right?
- A. That's right. I mean, I am speaking
-) from my perspective as a public health worker
- 1 that if all the company had to do to go out and

- Q. Do you see that? 1
- Yes.
- Q. Am I correct that what you are
- 4 expressing in that paragraph is that you don't
- 5 have any particular skill with regard to finding
- 6 these materials, that anyone could have done it,
- 7 right?
- A. Well, putting aside the question of my
- 9 skills, I am saying that there was a vast amount
- 10 of information that was available in the medical
- 11 libraries to anybody who knew that asbestos was
- 12 dangerous and wanted to know about what was known
- 13 about the dangers of asbestos. You had to know
- 14 it was dangerous to get into the medical library
- 15 and ask for information about it. That's the
- 16 biggest hurdle. Once you've gotten past that,
- 17 once you know it is dangerous, then there's a
- 18 world of information available to you. Whether 19 you started looking for it in the medical
- 20 libraries in the 1940s, '50s, '60s or '70s, there
- 21 was a lot of information available certainly to

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 58 of 75

Jacques v. Kecne Multi-Page Barry Castleman, 1-3-02

Page 226

1 any company with educated people that are used to

- 2 using things like libraries to amass information.
- 3 Q. Is it fair to say, Doctor, that you are
- 4 telling the reader that the material that you
- 5 have cited here was available to anyone who was
- 6 sufficiently motivated to find, that it was not
- 7 found by you because of any skill that you had in
- 8 research?
- 9 A. Well, I am saying overall that's true,
- 10 that the overall picture of the history of the
- 11 development and knowledge on asbestos and
- 12 disease, which is something I was asked initially
- 13 to look up by a plaintiff's lawyer in 1976, the
- 14 picture I developed in 130 hours of work is not
- 15 different from the overall picture that I
- 16 developed after writing a Doctoral thesis in the
- 17 900-page book, the basic outline of how that
- 18 knowledge developed. The principal references of
- 19 Dreessen and Merewether and so forth are easy to
- 20 find. If you opened up Selikoff's conference
- 21 proceedings, that opened everything up to you in

1 own, and I was -- you know, I thought it makes a

Page 228

Page 229

- 2 difference to me whether they owned 3 percent or
- 3 30 percent, and I was surprised to find that as
- 4 late as 1970 they still owned about 30 percent of
- 5 Owens-Corning.
- 6 Q. Doctor, you testified before that you
- 7 had never studied what proportion of
- 8 Owens-Corning's business was constituted by its
- 9 Kaylo sales, right?
- 10 A. That's right.
 - Q. So you don't know anything about the
- 12 financial health of Owens-Corning in relation to
- 13 its Kaylo revenues, right?
- 14 A. That's right. I haven't put that piece
- 15 of the story together.
- 16 Q. Is it fair to say that your recently
- 17 obtained knowledge about Owens-Illinois'
- 18 ownership of Owens-Corning's stock has not yet
- 19 influenced your opinions as expressed in this
- 20 case?

11

21 A. Well, I don't know. Like I say, this

- 1 terms of everything that had been published, but
- 2 that in terms of the overall picture of the
- 3 development of scientific knowledge, it's all
- 4 there by way of reference right there in that one
- 5 volume.
- 6 Q. At the beginning of the deposition,
- 7 Doctor, you mentioned that Mr. Berger provided
- 8 some information to you about Owens-Illinois'
- 9 ownership of Owens-Corning.
- What decision did that play in the
- 11 development or statement of your opinions in this
- 12 case?
- 13 A. Well, again, this is more of a legal
- 14 question, but I was just curious to know how long
- 15 Owens-Illinois had a substantial holding of the
- 16 stock in Owens-Corning, and I am looking at
- 17 Owens-Corning's financial health generally during
- 18 these years but in particular, the part of it
- 19 that accrued from the sale of Kaylo, and in the
- 20 period 1958 to 1972 and during that period of
- 21 time how much of Owens-Corning did Owens-Illinois

- 1 is more a matter for a question of the law and
 - 2 whether there is anyplace in a case like this for
 - 3 considering the fact that not only had
 - 4 Owens-Illinois pioneered in the development of
 - 5 the Kaylo product and the marketing of the
 - 6 product and the manner we have discussed, not
 - 7 only had they pretested the product and been told
 - 8 what they were told about the Saranac Laboratory
 - 9 about it and not only had they done all these
 - 10 other things, but they continued to have this
 - 11 financial relationship to the profitability of
 - 12 Kaylo past the time that they no longer were
 - 13 selling it themselves.
 - 14 Q. You are playing lawyer now, right? You
 - 15 are thinking whether or not that could fit into a
 - 16 case like this?
 - 17 A. I guess you might say that. It is just
 - 18 something I hadn't thought of before, and I
 - 19 thought, you know, I wonder how much of
 - 20 Owens-Corning they continued to own in the next
 - 21 10 years or so after 1958, but I don't know how

important that is for you people. You people are going to basically have this case processed based

on the law in the State of Illinois and the

rulings the judge makes on the various papers you

provide to him. I just thought I wanted to know,

and I think it is consistent with the view that

Owens-Illinois' lack of any action after 1958 to

somehow reach out and try and protect people was,

well, you know, maybe it was financially

influenced in some small part by the fact that

they were in this way profiting by the sale of : Kaylo.

Q. Doctor, I want to focus just on your opinions in this case. It sounds to me that what you are saying is that this is a new fact that you have discovered, and you are not sure exactly where it fits in, but it doesn't have any demonstrable effect on your opinions in this case?

MR. QUEENEY: Objection to three or four of those terms that you used because you Q. Anything else?

A. That's it.

Q. And just so we are clear, when you use

Page 232

Page 233

4 the word responsible in that sentence, you are

5 not talking about legal responsibility? You are

talking about responsible in your opinion?

A. Right. More in the sense of a moral

and ethical responsibility. The legal

9 responsibility I don't pretend to know about.

10 That's really beyond the scope of my course.

Q. Do you have any training or 11

12 certification in ethics?

13 A. No, but I would say that my ethics have

14 been put to a very, very considerable test over

15 the years.

16 Q. You have been tempted; is that right?

A. No. No one has ever even offered to 17

18 pay me off, but in terms of just being challenged

19 and being charged with various types of things

that might arguably be unethical, one deals with

21 a certain amount of flack being involved in the

Page 231

don't define any of them. Demonstrable is the

last one.

A. I don't know. It just depends on what questions I am asked. When you say demonstrable effect on my opinions in the case, what opinions? What's demonstrable? I am not trying to give you a hard time. I am just saying I'd like to be able to answer the question rather than quibble about what it says.

Q. Let me try to ask it in a different way.

How did your discovery of this fact influence your opinion in this case, if at all?

 A. I just think that this additional fact, I suppose, is consistent with a view that Owens-Illinois bears a continuing responsibility for the way Kaylo was sold without warning labels in the years after 1958 and that then they profited by, indirectly they profited by this business as usual approach in the marketing and sale of Kaylo.

1 field that I am involved in and the manner that I

2 have involved myself in.

Q. Doctor, on Exhibit Number 2 the second

4 word there is "clarify", right?

A. Right.

Q. That's a word that Mr. Queeney chose,

7 right?

A. Yes.

Q. Not you?

A. That's right. 10

Q. Would you agree with me that the 11

12 opinions that are expressed in Exhibit Number 2

are not expressed in Exhibit Number 1? 13

MR. QUEENEY: Objection. 14

A. You mean this is number 1, this is 15

16 number 2?

17 Q. Right.

A. Right. That's why the augmentation was 18

done so that there would be a sufficient record

20 before the Court to deal with the situation from

21 here on in.

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 60 of 75 Multi-Page Barry Castleman, 1-3-02

Page 234

1 Q. This is additional information? It

- 2 doesn't clarify anything that is in Exhibit
- 3 Number 1, right?
- 4 A. Right. He might have changed the word
- 5 clarify to augment. Right. Technically I think
- 6 your suggestion is well taken.
- 7 Q. So if that said to augment my prior
- 8 report or even to add to my prior report, it
- 9 would be accurate, as far as you are concerned?
- 10 A. Right.
- 11 MR. FISCHER: That's all I have for
- 12 you.
- 13 MR. QUEENEY: I have a few questions.
- 14 EXAMINATION BY MR. SWEENEY:
- 15 Q. When was your Doctoral thesis written?
- 16 A. 1981 to 1985.
- 17 Q. And when was your book first published?
- 18 A. The last month of 1984.
- 19 Q. I'm sorry. The First Edition.
- 20 A. The First Edition came out in late
- 21 1984.

Page 236

- 1 A. I estimate that it was about 6,000
- 2 hours to write the First Edition.
- 3 Q. Do you have today on opinion as to
- 4 Owens-Illinois' knowledge as to the relationship
- 5 between Kaylo and Kaylo dust and asbestosis as of
- 6 1948 and then specifically its receipt of reports
- 7 from the Saranac Laboratory in late 1948?
- 8 MR. FISCHER: Object to form and
- 9 foundation.
- 10 A. Well, in November 1948 the company
- 11 received Dr. Vorwald's bad news about the fact
- 12 that all nine of the animals allowed to survive
- 13 in the experiment from 30 to 37 months from the
- 14 start of the experiment, all nine of these
- 15 animals had developed asbestosis, and Vorwald had
- 16 very strong words of warning to the company
- 17 saying sorry to tell you this, but at least it is
- 18 better to learn this now in experimental animals
- 19 rather than later in industrial workers.
- 20 Q. Based upon that disclosure of that
- 21 report, do you in fact have an opinion, yes or

Page 235

- 1 Q. How many editions have you published
- 2 since 1984?
- 3 A. There are four. The second was in
- 4 '86. The third was in 1990. And the fourth was
- 5 '96.
- 6 Q. Would you briefly describe or summarize
- 7 the amount of work and the kind of work you did
- 8 to locate the sources that you used to prepare
- 9 and publish the First Edition of that book.
- 10 A. I basically tried to read everything
- 11 that had been published about the hazards of
- 12 asbestos in medical and nonmedical sources of all
- 13 kinds, tried to augment that with review of
- 14 Governmental records, archives of scientists in
- 15 institutions and interviews with old-timers in
- 16 the field of occupational health.
- 17 Q. Do you have any idea or recollection
- 18 and/or estimate as to the amount of hours you
- 19 spent preparing all the information that led to
- 20 this First Edition?
- 21 MR. FISCHER: Object to form.

1 no, as to Owens-Illinois' knowledge as to a

- 2 relationship whether it is an association or a
- 3 causal relationship between Kaylo and Kaylo dust
- 4 and asbestosis as of late 1948?
- 5 MR. FISCHER: Object to form and
- 6 foundation.
- 7 A. I think the company clearly was aware
- 8 that Kaylo could cause asbestosis in late 1948.
- 9 This confirmed what Gardner had predicted in the
- 10 outset of his studies in 1943 when he said that
- 11 with the element of Kaylo they had all the
- 12 ingredients of a first-class hazard.
- 13 Q. Over and above the various
- 14 correspondence and reports that Owens-Illinois
- 15 received from 1943 through 1948, is there any
- 16 other published literature that you think has a
- 17 bearing upon your opinion that Owens-Illinois
- 18 knew that there was a relationship between Kaylo
- 19 and Kaylo dust on the one hand and asbestosis on
- 20 the other as of 1948?
- 21 MR. FISCHER: Object to form and

1 from 1956 I think on page 613 under the

2 Owens-Corning section in Chapter 9.

Q. You have referenced both with respect

Page 240

Page 241

4 to my questions and questions put to you

5 repetitively by Mr. Fischer as to Mr. Vorwald's

6 report.

7 Do you recall that there was in fact a

8 written report sent from Saranac under his

9 signature to Owens-Illinois with a date of about

10 October 30th, 1948?

11 MR. FISCHER: Object to form.

12 A. Yes.

13 MR. FISCHER: And foundation.

14 Q. And is that in fact the same report

15 that you have been referring to as the Vorwald

16 report?

17 A. I don't know that I have referred to

18 only one. I referred to a Vorwald report from

19 1951 from the Kaylo plant, the manufacturing

20 plant, and I think on another occasion I did

21 refer to the 1948 report you are talking about.

Page 239

1 They are both referenced in the book.

Q. What is the status of -- strike that.

To what extent does the Vorwald 1948

4 report report to Owens-Illinois its findings as

5 to the connection between Kaylo and Kaylo dust on

6 the one hand and asbestosis on the other?

7 MR. FISCHER: Objection. Form,

8 foundation, and vague.

9 A. The 1948 report says that Kaylo can

10 cause asbestosis and it is an industrial health

11 hazard.

21

12 Q. Switching for the moment to what you

13 have referred to as the background medical or

14 scientific information, does your book either

15 within or outside of Chapter 4 refer to that

16 other information that you think has some bearing

17 upon Owens-Illinois' knowledge as of late 1948 as

18 to the extent to which Kaylo might or did in fact

19 cause asbestosis in humans?

20 MR. FISCHER: Object to form.

A. Yes. Those references are cited

- purpose was to present the vast amount of medical
- 2 and scientific information, both published and3 unpublished, and on occasion I give opinions, but

for the most part, I simply present the

5 information, and I think in many cases doing that

5 is tantamount to giving an opinion.

Q. For example, you reference the Saranac reports or correspondence. Are some or multiple reports and correspondence from Saranac identified and/or quoted in your book with respect to its report to Owens-Illinois as to Kaylo?

A. Oh, yeah.

I foundation.

A. Well, then there would just be the

3 background literature of medical and scientific

5 substantial library containing numerous reports

+ articles they were accumulating in their very

5 of asbestosis in insulation workers and other

3 asbestosis and in some cases accompanied by

asbestos exposure, so the company had both the experimental data on its own product and the

2 background medical and scientific picture into

Q. As to that opinion and its bases, are

5 both those opinions and its bases found in your

MR. FISCHER: Object to form.

The art of writing a book isn't a process of

) making a legal argument, but certainly the underlying data are contained in the book. The

A. I don't know about that, the opinions.

7 workers exposed to asbestos, reports of

) cancers that were being attributed to their

3 which this new data fit.

5 book?

MR. FISCHER: Object to form.

Q. Do you know where in your book that applies?

A. I was reading from Chapter 4 and the section in Chapter 9, as I pointed out. It's only about eight or ten pages on Owens-Illinois.

There is also reference to the Owens-Illinois and Owens-Corning, as I call it, the sales brochure

- 1 throughout the first five chapters of the book.
- 2 Q. As you sit here today without opening
- 3 your book, can you think of one, two or three of
- 4 those non-Saranac background reports that you
- 5 think have some material bearing upon and support
- 6 in fact to your opinion that Owens-Illinois knew
- 7 about the association relationship between Kaylo
- 8 and asbestosis as of 1948?
- 9 MR. FISCHER: Object to form and
- 10 foundation.
- 11 A. Well, let me look at the library
- 12 materials to refresh my recollection.
- 13 MR. FISCHER: Just so we are clear,
- 14 Dr. Castleman is referring to his book.
- 15 A. Most of the material they would have
- 16 obtained prior to 1948 would have been in the
- 17 Journal of Industrial Hygiene and Toxicology, the
- 18 articles and abstracts contained therein. There
- 19 were probably 50 to a hundred articles and
- 20 abstracts on asbestos and disease in that journal
- 21 during the period 1928 to 1948, and these would

- Page 244
 1 cancer was an asbestos disease was published in
- 2 1955. They received it from 1949 to 1958,
- 3 according to these answers to interrogatories,
- 4 and that's all in addition to the Industrial
- 5 Hygiene Digest which it was published by the
- 6 Industrial Hygiene Foundation which
- 7 Owens-Illinois helped to form with their man on
- 8 the Board of Directors for the first 20 years or
- 9 so.
- 10 Q. Which man was that?
- 11 A. That's A.C. Hirth. I have a picture of
- 12 him on 728. Page 728 of the book shows the
- 13 members of the Industrial Hygiene Foundation
- 14 meeting in the Board of Directors room in
- 15 Johns-Manville Corporation in 1945, and the
- 16 Industrial Hygiene Digest had hundreds of
- 17 articles or, rather, abstracts of articles
- 18 published from around the world.
- 19 Q. What is an abstract?
- 20 A. A summary, usually one paragraph or two
- 21 summarizing the essential contents of an article.

Page 243

- 1 have talked about in some cases asbestosis in
- 2 insulation workers. Among the articles that was
- 3 abstracted was the report of Holleb Angrist in
- 4 1942 which reported on lung cancer as well as
- 5 asbestosis in a couple of insulation workers
- 6 reported by doctors in New York.
- 7 Q. Just so the record is clear, how is it
- 8 that you have formed an opinion that one or more
- 9 of those articles were in fact within
- 10 Owens-Illinois' library?
- 11 A. Owens-Illinois has acknowledged in
- 12 answers to interrogatories that they received the
- 13 Journal of Industrial Hygiene and Toxicology from
- 14 1928 to 1949 and its successor journals from 1950
- 15 through 1958, and that is to say the same journal
- 16 I think by other names. They also received a
- 17 number of other journals in the following years,
- 18 in the 1940s and the late '40s and '50s,
- 19 Industrial Medicine and Surgery from 1949 to
- 20 1958, the British Journal of Industrial Medicine
- 21 where Dr. Richard Doll's study showing lung

- Q. Over and above that kind of information
- 2 that your investigation has shown that they
- 3 actually received, did you receive any
- 4 information that Owens-Illinois was precluded
- 5 somehow from discovering the kinds of information
- 6 and articles that you found when you began your
- 7 investigation in the 1970s?
- 8 MR. FISCHER: Objection to form and
- 9 foundation, and relevance.
- 10 Q. Can you answer that question?
- 11 A. Yeah. I think that Owens-Illinois was
- 12 well placed to find any additional articles that
- 13 were published, and even in addition to that,
- 14 maybe even go beyond stuff that was published.
- 15 For example, the Asbestos Textile Institute hired
- 16 the Industrial Hygiene Foundation to do a survey
- 17 of the asbestos textile factories in the United
- 18 States, and the author of the survey, Wesley
- 19 Hemeon, H-E-M-E-O-N, repeatedly denounced the
- 20 optional exposure limit of five million particles
- 21 per cubic foot as not reliable.

Q. When was that?

- 2 A. That was in 1947, and that was not
- 3 published, but I think that Dr., I think
- 4 Mr. Hemeon was clearly accessible to people at
- 5 Owens-Illinois. In this particular picture we
- 6 have a senior lawyer from Owens-Illinois sitting
- 7 at the table and Mr. Hemeon, Leroy Gardner
- 8 standing, Leroy Gardner, the director of the
- 3 Saranac Laboratory, standing behind him in the
-) Industrial Hygiene Foundation trustees meeting in
- 1 1945, so I think that if they wanted to know, I
- 2 say if Owens-Illinois wanted to know what Wes
- 3 Hemeon thought of the TLV for asbestos, he would
- 4 have told them the same thing he wrote in the
- 5 report to the ATI, so they had additional access
- 5 to information that maybe even went beyond what
- 7 was in the published scientific literature.
- 3 MR. FISCHER: Let me object and move to
- Fig. 2 strike Dr. Castleman's answer as without
-) foundation and narrative and irrelevant.
 - Q. Do you have any information, have you

Q. With respect to cancer, do you have an

Page 248

Page 249

- 2 opinion as to whether or not Owens-Illinois had
- 3 knowledge as to a relationship between Kaylo
- 4 and/or Kaylo dust on the one hand and a cancer as
- 5 of the late 1940s?
- 6 MR. FISCHER: Objection. Form and
- 7 foundation.
- 8 A. I think that the industrial hygienists,
- 9 Willis Hazard and the company medical director,
- 10 Dr. Shook, should have been aware of the fact
- 11 that there was a substantial body of literature
- 12 published on the association of asbestos work and
- 13 cancer, and this was, for example, the subject of
- 14 an editorial in the Journal of the American
- 15 Medical Association in August of 1949 and the
- 16 same month was summarized neatly in a
- 17 one-paragraph abstract in the Industrial Hygiene
- 18 Digest in August of 1949, and this was a
- 19 statistical report from England showing that
- 20 among 235 individuals who had died with
- 21 asbestosis, that 13 percent of them also had

- 1 seen any information to the effect that the
- 2 people from Owens-Illinois who sat on the IHF
- 3 were somehow precluded from obtaining information
- 4 developed by the IHF --
- 5 A. No.
 - MR. FISCHER: Objection.
 - O. -- or its control?
- MR. FISCHER: Objection. Form,
- foundation and relevance.
- A. No.
- Q. Mr. Fischer asked you a series of
- 2 questions about your ability to go into a library
- 3 and find information.
- Have you seen any information anywhere
- 5 to the effect that Owens-Illinois or any of its
- 5 individual representatives had any kind of a
- 7 handicap with respect to obtaining the same kind
- 3 of information that you found?
 - MR. FISCHER: Objection. Form and
-) foundation.
 - A. No.

- 1 cancers of the lung and pleura, and this was
- 2 contrasted with only 1 percent rate of cancers of
- 3 the lung and pleura in the general population
- 4 seen at autopsy.
- 5 Q. Over and above the two articles that
- 6 you just mentioned in the late 1940s, does your
- 7 book contain other articles or publications to
- 8 this same effect, namely that there was some sort
- 9 of association between asbestos and/or cancer?
- 10 MR. FISCHER: Objection.
- 11 A. Yes.
- 12 MR. FISCHER: Form and to relevance.
- 13 A. Yes. I have seen about 80 articles and
- 14 abstracts that were published before 1950 in
- 15 varying degrees raising this question and concern
- 16 about asbestos as a cause of occupational cancer.
- 17 Q. And based upon those articles, what was
- 18 as far as you understand it, what was the --
- 19 strike that.
- 20 What knowledge should have
- 21 Owens-Illinois had had it read those articles

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 64 of 75

Jacques v. Keene Multi-Page

Multi-Page

Barry Castleman, 1-3-02

Page 250

- 1 with respect to the association between asbestos
- 2 and cancer as of the late 1940s?
- 3 MR. FISCHER: Objection to form.
- 4 Foundation. Vague.
- 5 A. I think Owens-Illinois should have
- 6 known that an insulation product like Kaylo by
- 7 the late 1940s, they should have known certainly
- 8 that this product was capable of causing both
- 9 asbestosis and occupational cancer.
- 10 Q. Was the information about cancer aided
- 11 or augmented or perhaps clarified by the Doll
- 12 report in 1955?
- 13 MR. FISCHER: Objection. Form.
- 14 Foundation and pronunciation.
- 15 A. There was a report published by Richard
- 16 Doll in 1955 which I have mentioned that
- 17 basically showed that asbestos factory workers
- 18 had 10 times lung cancer as would have been
- 19 expected among men from the regions where they
- 20 worked comparing the mortality of the workforce
- 21 to the mortality of the general population.

- Page 252
- 1 that TLV? How did it come about being accepted
- 2 as a TLV?
- 3 A. It had originally been recommended in a
- 4 1938 public health service study of workers whose
- 5 average age was only 32, and this then got
- 6 adopted into codes in some states, and the TLV
- 7 Committee when they put together the first list
- 8 of TLVs in 1946 included this limit for asbestos
- 9 along with 140 limits for other substances, and
- 10 then the subject doesn't seem to have been
- 11 seriously reconsidered by them until sometime in
- 12 the mid-'60s.
- 13 MR. FISCHER: Objection to the
- 14 narrative and nonresponsive nature of
- 15 Dr. Castleman's answer.
- 16 Q. When Mr. Fischer was asking you a
- 17 series of questions, you mentioned that some of
- 18 the TLVs, according to your investigation, were
- 19 not found to be justified.
- 20 Do you have an opinion as to whether or
- 21 not the adoption of the 1938 MPPCF 5 was

Page 251

- Q. Was that report generally considered
- 2 within the medical and/or scientific communities
- 3 as something that established a causal
- 4 relationship as that term has been defined by
- 5 Mr. Fischer between asbestos and cancer as of
- 6 1955?

1

- 7 MR. FISCHER: Objection.
- 8 A. Yes.
- 9 MR. FISCHER: Form and foundation.
- 10 A. Yes. The Lancet, for example, one of
- 11 the major British medical publications, had an
- 12 editorial after this article appeared saying that
- 13 Doll has definitely established that asbestos
- 14 causes lung cancer.
- 15 Q. You were asked certain questions about
- 16 the TLV and the TLV for asbestos.
- Was in fact the threshold limit value
- 18 for asbestos in the late 1940s and early 1950s at
- 19 five million parts per cubic foot?
- 20 A. Yes.
- 21 Q. What do you understand as the origin of

- 1 justified in 1946?
- 2 MR. FISCHER: Objection to the form,
- 3 and vagueness and foundation.
- 4 A. Well, it was justified in the sense
- 5 that some protection is better than none, but one
- 6 couldn't really rely on this exposure limit as
- 7 being safe. As Dr. Vorwald pointed out, these
- 8 limits in general couldn't be relied upon as
- 9 safe. There was an incomplete body of knowledge
- 10 on the dose response relationship of asbestos
- 11 along with the other 140 substances on the list
- 12 in human beings, sometimes varied and incomplete,
- 13 and in the case of asbestos, we had the
- 14 additional complication that the agent of concern
- 15 wasn't being directly measured in the air. They
- 16 were using total dust counts instead of specific
- 17 analysis of the airborne concentrations of
- 18 asbestos fibers, so they were using a total dust
- 19 count as a surrogate measure for the agent of
- 20 concern even though the vast majority of the
- 21 airborne particles were known to be other things

Jacques v. Keene

Page 256

Page 257

Page 254

1 than asbestos even in asbestos textile plants, so

2 this made it even more useless to rely on

3 asbestos TLV than for TLVs for other substances

4 where at least the airborne sampling and analysis

5 method was sampling and analyzing only trichloral

5 ethylene or lead or whatever the agent of concern

7 was.

8 MR. FISCHER: Objection to the

narrative, nonresponsive nature of

Dr. Castleman's answer as well as to the scope of

1 his opinion in relation to his reports.

2 Q. That opinion with respect to the

3 unreliability of the TLV, does that opinion

4 appear in sum and substance in your book?

MR. FISCHER: Objection to form.

A. I think so, yes.

Q. Can you identify for Mr. Fischer in the

3 record what portion of your book addresses the

inadequacy on justifying the nature of the TLVs?

A. Well, Chapter 4 is all about the TLV.

Q. You mentioned specifically that the

1 Q. Was there prior to 1938 and/or 1948 any

2 published literature with respect to workers

3 getting asbestosis working at what was thought to

4 be less than five million parts per cubic feet?

5 MR. FISCHER: Objection. Form.

6 Foundation and vague.

7 A. There was very little information on

8 that, but there was one article that was cited by

9 the Public Health Service, the Pennsylvania study

10 by Fulton and his co-workers, and they found that

11 there were workers exposed to as little as 4.64

12 million particles per cubic foot who developed

13 asbestosis, so here we had an example of

14 exposures less than five million causing the

15 disease and, yet, the Public Health Service

16 report saying okay, let's at least get exposures

17 down to five million.

18 Q. Did the Saranac Laboratory do any

19 studies as to exposure levels, to your

20 knowledge?

21 MR. FISCHER: Objection to form and

Page 255

1 study from which the TLV was borrowed was in 1938

2 and that improperly in your mind at least focused

3 upon an average age with the cohort of 32 years.

4 Would you explain that.

MR. FISCHER: Object to form.

A. Well, this was the youngest of 14

7 industrial cohorts that the U.S. Public Health

3 Service had done some surveys on, different

industrial cohorts, and in this particular group

the asbestos industry, the asbestos companies

that were surveyed had replaced 150 out of lessthan 600 of the workers, so they had new workers

3 with no, with clean lungs who hadn't been

4 breathing asbestos all those years, and they were

5 hired to replace people who the Public Health

5 Service estimated more than half of them had

7 asbestosis. This was based partly on the fact

3 that there had been three other medical articles

published in 1936 about the large numbers of

) asbestosis cases among asbestos textile workers

1 in the Carolinas.

1 foundation.

A. Well, they did some air sampling in the

3 Kaylo plant in 1951 that we have talked about.

4 They also, at least Dr. Gardner in 1943 wrote

5 critically in a confidential report to other

6 companies that he felt that the air sampling

7 method for asbestos was not any good and that

8 they needed to develop something more specific,

9 and he was working on the development of an

10 electrostatic precipitator type of sampling

11 device. Gardner died three years later and

12 nothing else was ever heard about this device.

13 Q. The literature that you have reviewed,

14 does that indicate that after receiving in late

15 1948 reports from Saranac to the effect that

16 seemingly negligible proportions or very small

17 amounts or numbers of fibers would cause

18 asbestosis, that Owens-Illinois took it upon

19 itself to conduct any study to better define what

20 would be a safe level?

21 MR. FISCHER: Objection. Form.

Case: 3:99-cv-00475-slc Document.#: 43 TMFiled: 01/08/15 Page 66 of 75

Jacques v. Keene Multi-Page Barry Castleman, 1-3-02

Page 258

- 2 A. No. Owens-Illinois didn't do any such
- 3 thing.
- 4 Q. Did anyone ever say that the five MPPCF
- 5 was in fact a safe TLV?

1 Foundation. Vague.

- 6 MR. FISCHER: Objection. Form.
- 7 Foundation.
- 8 A. I think there was one article that
- 9 referred to it as a safe limit. I think it was
- 10 because some people would use the term safe limit
- 11 as an equivalent to maximum allowable
- 12 concentration or threshold limit value, and they
- 13 didn't mean it so much as to say that I believe
- 14 that this is safe to say that this is a level
- 15 that is where the safety line is being drawn, the
- 16 level not to be exceeded, so sometimes they were
- 17 a little bit sloppy in the use of the word safe,
- 18 but that doesn't come up much.
- 19 Q. To what extent did the unreliabilities,
- 20 as you have defined it, with respect to the TLV
- 21 of five, to what extent was that unreliability

1 for some period of time thereafter was not

2 designed to and did not in fact address the risk

Page 260

Page 261

- 3 of cancer?
- 4 A. Right.
- 5 MR. FISCHER: Objection. Form.
- 6 Foundation.
- 7 A. That's right.
- 8 Q. Was that fact known, the fact that the
- 9 TLV of five did not address cancer, was that a
- 10 fact that was addressed in the publications?
- 11 MR. FISCHER: Objection. Foundation.
- 12 A. Yes. Eventually it was.
- 13 Q. You have talked a number of times
- 14 referencing Dr. Vorwald's cautionary statement to
- 15 Owens-Illinois to the effect that they should not
- 16 rely upon any prescribed standard. Do you know
- 17 what year that was, that admonition?
- 18 A. 1951.
- 19 MR. FISCHER: Objection to form.
- 20 A. 1951.
- 21 Q. Was that in connection with respect to

- 1 discussed in the literature prior to 1958, if you
- 2 recall?
- 3 MR. FISCHER: Objection to the form and
- 4 foundation.
- 5 A. Well, I make reference to a number of
- 6 things in Chapter 4 where it was discussed. Some
- 7 of these are articles in 1952 and 1956 published
- 8 in this country that raised concern that if you
- 9 have a toxic substance for which the occupational
- 10 exposure limit has been set based on some other
- 11 effect than cancer, but the substance also is
- 12 known to cause cancer, you cannot assume that the
- 13 occupational exposure limit is going to protect
- 14 people from cancer. It wasn't developed for
- 15 that, and both of those articles by Dr. Mayers in
- 16 1952 and by Warren Cooke in 1956 specifically
- 17 mention asbestos as one of these agents that
- 18 causes cancer.
- 19 Q. So the TLV that you spent some time
- 20 talking about with Mr. Fischer of five, that was
- 21 supposedly promulgated in 1946 and then in effect

- 1 a report from the Saranac lab to Owens-Illinois
- 2 on the very same Kaylo studies?
- 3 A. That was a report on the industrial
- 4 hygiene survey of the plant where Kaylo was
- 5 manufactured.
- 6 Q. You were asked if you had any
- 7 information or had any opinion as to whether any
- 8 member of the committee that set those TLVs was
- 9 corrupt, and you said you had some problem with
- 10 that word.
- 11 Let me ask you this: Is there any
- 12 information to the effect that anybody on that
- 13 committee suffered from a lack of objectivity?
- 14 MR. FISCHER: Objection. Form.
- 15 Foundation.
- 16 A. Well, I don't know if I'd put it quite
- 17 like that. It is just that some of these people
- 18 had, like in the case of Dr. Drinker, the
- 19 industrial hygienist, he had connections with the
- 20 oil industry. He was a consultant to the
- 21 American Petroleum Institute, and when he was on

se: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 67 of 75 **Multi-Page** M.] arry Castleman, 1-3

Page 262

1 the TLV Committee in 1947 as one of the five

- 2 members of the committee, he was also writing
- 3 memos to the oil companies or contacting the oil
- 4 company doctors in the oil industry saying that
- 5 if you've got a problem with any of these
- 5 occupational exposure limits, let me know, and if
- 7 they are too severe, I will see if I can do
- 3 something about that for you.
- MR. FISCHER: Objection to the
-) narrative, nonresponsive nature of
- 1 Dr. Castleman's answer.
- Are those facts addressed and
- 3 identified in your book also?
- A. Not the last one. That came up more
- 5 recently, the Drinker matter.
- Q. Dr. Vorwald conducted some studies on
- 7 behalf of some asbestos manufacturers, I believe
- 3 it was the Quebec Association or Asbestos Mining
- Association and Johns-Manville in the late 1940s,

MR. FISCHER: Objection to form and

MR. FISCHER: Objection. Foundation,

O. What were the tentative results of

A. The findings were that the animals

3 exposed to asbestos had 5.7 times as much lung cancer as the animals that were not exposed to

Q. What is the basis -- I'm sorry.

A. The studies were never published.

4 existence and the substance of those studies?

A. Dr. Schepers, one of the later

Q. How did you go about determining the

MR. FISCHER: Objection. Relevance.

) early 1950s?

2 relevance.

) asbestos.

4 those studies?

A. In the early '50s.

5 form, vague, relevance.

1 TLVs, do you have any information whether or not

Page 264

Page 265

- 2 those preliminary results were disclosed by
- 3 Dr. Vorwald?
- MR. FISCHER: Objection. Form,
- 5 foundation, relevance.
- A. I don't understand what you are asking
- 7 me.
- Q. Do you know whether or not besides not
- 9 being published, the existence of those studies
- 10 and/or their tentative results were disclosed
- 11 among industry members like Owens-Illinois, for
- 12 example?
- 13 MR. FISCHER: Objection. Form,
- 14 foundation.
- A. I still don't know what you are getting
- 16 at. I don't understand.
- Q. Do you know whether or not Dr. Vorwald 17
- 18 ever disclosed -- strike that.
- Was Dr. Vorwald a member of the
- 20 committee that sat and/or approved any of the
- 21 TLVs?

Page 263

A. Yes. He was on the TLV Committee from

- 2 1950 or '51 to 1956.
- Q. In connection with his membership on
- 4 that committee, do you have any documents
- 5 indicating that he ever in connection with that
- 6 membership disclosed his tentative results to any
- 7 of the other committee members?
- MR. FISCHER: Objection to form.
- 9 Foundation and relevance.
- A. The cancer studies, no. 10
- 11 Q. Do the documents or do you have any
- 12 information from any source as to what
- Dr. Vorwald's position was with respect to the
- 14 need to incorporate -- strike that.
- 15 Do you have any information as to the
- extent to which Dr. Vorwald openly recommended
- 17 that the TLV be adjusted because of his tentative
- 18 results with respect to those cancer studies?
- 19 MR. FISCHER: Objection. Form,
- 20 foundation, relevance.

21

A. I don't know of any public disclosure

- 7 directors of the Saranac Laboratory, ultimately 3 found some of this information and published it
- many years later. 1995. Q. With respect to your investigation of
- 1 the setting and continued acceptability of the

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Multi-Page Multi-Page Jacques v. Keene Barry Castleman, 1-3-02

Page 266

1 he ever made about the cancer studies.

- Q. What has your investigation shown as to
- 3 the circumstances surrounding the failure of
- 4 Dr. Vorwald or Saranac to complete those
- particular studies?
- MR. FISCHER: Objection. Form,
- 7 foundation, relevance.
- A. Well, it seems as if the studies were
- completed. They just weren't published, the
- 10 cancer studies.
- Q. Do you have any information as to why 11
- 12 those studies were not published?
- MR. FISCHER: Objection. Foundation. 13
- A. Because they reflected adversely on the 14
- 15 asbestos industry. Vorwald was a consultant to
- 16 the asbestos industry. There was even a comment
- 17 that appears in the files of Turner & Newell that
- 18 the companies pulled the plug on the studies when
- they saw the studies coming out wrong.
- Q. And who is Turner & Newell? 20
- MR. FISCHER: Objection. Relevance. 21

Q. How about Saranac? Was Saranac ever

Page 268

Page 269

- 2 retained by the asbestos industry including
- 3 Johns-Manville with respect to any possible or
- 4 prospective studies?
- MR. FISCHER: Objection. Form, 5
- 6 foundation, relevance, vague.
 - A. They were mostly retained by JM and the
- 8 other asbestos companies to do experimental
- 9 animal studies, not so much human data. They did
- 10 get involved in the evaluation of specific cases
- 11 that were appearing for compensation in Quebec.
- 12 Q. Those animal studies, were they
- 13 supervised by Dr. Gardner in the late 19 -- the
- 14 early 1940s?
- MR. FISCHER: Objection. Relevance. 15
- 16 Foundation.
- 17 A. Right. Gardner was in charge in the
- 18 late '30s and the early '40s, and then he died in
- 19 1946, and Vorwald came on board the next year.
- Q. Did he leave records at Saranac 20
- 21 summarizing his at least tentative results of

Page 267

- A. A big asbestos company in England.
- 2 There is a memo I referred to that was written by
- 3 their company doctor.

1

- Q. Generally speaking, do you have any
- 5 information to the effect that other studies were
- 6 either not begun or, if begun, were not completed
- 7 because there was a thought that they would
- 8 result in negative findings, namely that there
- was a causal relationship between asbestos and
- 10 asbestosis, cancer and the mesothelioma?
- A. Yes. 11
- MR. FISCHER: Objection. Form. 12
- 13 Foundation.
- Q. Can you give us another example besides 14
- 15 the Vorwald?
- MR. FISCHER: Objection to form. 16
- A. The Asbestos Textile Institute 17
- 18 considered the idea of doing a study on cancer
- 19 and asbestos, and it was voted down six to two
- 20 according to the 1957 minutes on the Asbestos
- 21 Textile Institute.

- 1 those animal studies?
- MR. FISCHER: Objection. Form.
- 3 Foundation.
- A. Yes. Gardner has some records of --
- 5 Gardner's studies have been found not necessarily
- 6 at Saranac but sometimes in the files of
- 7 Johns-Manville, Turner & Newell and else where.
- Q. Do you have a recollection as to the
- 9 percentile of asbestosis found in mice in those
- 10 animal studies by Dr. Gardner?
- MR. FISCHER: Objection. Form, 11
- 12 foundation, vague.
- A. Asbestosis they reproduced the same as 13
- 14 with people. Cancer was probably the more
- 15 controversial finding in the study that Gardner
- 16 wasn't really asked or authorized to do by the
- 17 asbestos companies, and he found 81.8 percent of
- 18 the animals in this particular group had lung
- 19 cancer.
- 20 Q. Do you know --
- 21 MR. FISCHER: Objection to the

Page 270 Page 272 nonresponsive nature. 1 sentence in order to give it any kind of flavor. Q. Do you know when he found that 81.8 Q. We will get to that, but those words 3 are in the conclusion, right? percent? MR. FISCHER: Objection. Form. 4 MR. QUEENEY: Objection. A. It was reported to Johns-Manville and A. Conclusion number 4 says since we found 6 only three cases of asbestosis in people with the other sponsoring companies in February of 1943. 7 more than 20 years in the trade such as pipe Q. Do you know if that was ever published, 8 covering, it can be considered not a very that finding of 81.8 percent of lung cancer in 9 dangerous trade, or words to that effect. That's) mice? 10 what they said. MR. FISCHER: Objection. Form, Q. Let's see if we can agree on the 11 foundation, relevance. 12 language, Doctor. Since each of the three cases A. Not before the 1980s. The claim came 13 of asbestosis worked at asbestos pipe covering in up in legal discovery. 14 the shipyard for more than 20 years, it may be 15 concluded that such pipe covering is not a MR. QUEENEY: Nothing else. **EXAMINATION BY MR. FISCHER:** 16 dangerous trade, right? Q. Dr. Castleman, are you aware that this 17 A. Right. case is set for trial January 28th? Q. They also said pipe covering was a 18 19 relatively safe occupation, right? A. It is probably on my calendar. I) haven't really -- I don't know. A. I don't recall them saying that. 20 Q. Have you indicated to anyone that you Q. Do you dispute that they did? 21 Page 273 Page 271 A. I just don't recall where they said are not available to come and testify at the 1 ! trial? 2 that. Q. You have characterized the A. No. I expect to be available. Q. You don't have any overseas trips 4 Fleischer-Drinker report as giving the pipe 5 covering trade a rather clean bill of health, i planned over the course of the next two months? A. Not until March. 6 right? Q. But in March you do; is that right? 7 A. Right. A. Maybe March or April I am going back to Q. And that was something that Mr. Hazard) India. 9 had read; is that right? A. Evidently. Q. Is there anything else on your calendar 10 that would preclude you from coming to trial that Q. You have read Mr. Hazard's transcript, 11 ! you are aware of as you sit here now? 12 right? A. Not for a long time, but, yes, I recall A. No. 13 14 him referring to it. Q. One of the published pieces of i literature available in 1946 was the Q. In fact, he said that he had read the 15 16 Fleischer-Drinker report, right? Fleischer-Drinker report, right? A. Right. A. Right. 17 Q. And the Fleischer-Drinker report O. He said that he had relied on it, 18 included that pipe covering is not a dangerous 19 right?

A. I believe so.

Q. He said that Phil Drinker had been his

20

21

A. Well, you need to read the whole

) occupation, right?

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 70 of 75

Jacques v. Keene Multi-Page Barry Castleman, 1-3-02

Page 274 Page 276

- 1 professor at Harvard, right?
- 2 A. I don't remember that, but that sounds
- 3 right.
- 4 Q. And that one of the reasons that he
- 5 read that report was because he had had an
- 6 association with Drinker, right?
- 7 A. Again, I don't recall these details,
- 8 but I am not disputing it.
- 9 Q. You mentioned a gentleman by the name
- 10 of Hemeon, right?
- 11 A. Right.
- 12 Q. The Hemeon report was never published,
- 13 right?
- 14 A. Right.
- 15 Q. And you have no evidence that it ever
- 16 came into the possession of Owens-Illinois,
- 17 right?
- 18 A. Right.
- 19 MR. QUEENEY: Objection.
- 20 Q. Mr. Queeney asked you some questions
- 21 about cancer without distinguishing among the

- 1 organ of the body, right?
- A. I suppose.
- 3 Q. And different agents cause different
- 4 kinds of cancer, right?
- 5 A. Right.
- 6 Q. And asbestos exposure has been shown
- 7 not to cause cancers that arise in many organs,
- 8 right?
- 9 A. Well, I don't know that you can say
- 10 that, but asbestos has not been associated with
- 11 cancer in many organs. It has been associated
- 12 with cancer in some organs but not all.
- 13 Q. The Doll study in 1955 was the first
- 14 epidemiological study demonstrating a causal link
- 15 between asbestos exposure and lung cancer, right?
- 16 A. I don't think so. For example, the
- 17 report by Breslow and his co-workers the year
- 18 before published in the American Journal of
- 19 Public Health showed a high association of --
- 20 well, what they did was they had high association
- 21 between lung cancer and occupations classified as

Page 275

- 1 different kinds of cancer.
- 2 Do you recall his questions?
- 3 A. No.
- 4 Q. During the questions that Mr. Queeney
- 5 just asked you, do you recall testifying about a
- 6 1949 statement that found lung cancer with
- 7 asbestosis?
- 8 A. Oh, I recall my answer then about the
- 9 editorial.
- 10 Q. And that was lung cancer found in
- 11 connection with the disease asbestosis, right?
- 12 A. Right.
- 13 Q. We agree that there was nothing in the
- 14 published literature about an association between
- 15 asbestos exposure and colorectal cancer prior to
- 16 1964, right?
- 17 A. Correct.
- 18 Q. We also agree that cancer is a very
- 19 broad term, right?
- 20 A. Right.
- 21 Q. Cancer can arise in virtually every

- 1 asbestos worker, boilermaker and steamfitter,
- 2 and, of course, there's the earlier data from the
- 3 British Government which might not technically
- 4 count as an epidemiological study but really is
- 5 very strong statistical evidence.
- 6 Q. Is it fair to say, Doctor, that the
- 7 Doll study is commonly regarded as the defining
- 8 epidemiological study with regard to the
- 9 association between asbestos exposure and lung
- 10 cancer?
- 11 A. It is regarded as a study which
- 12 established beyond any reasonable doubt that
- 13 asbestos caused lung cancer. There were plenty
- 14 of other studies suggesting that earlier.
- 15 Q. You are aware that there is a
- 16 continuing dispute in the medical literature
- 17 about whether or not the disease asbestosis is
- 18 necessary to attribute lung cancer to asbestos
- 19 exposure?
- 20 A. Well, I think that is in a class -- I
- 21 would call that tobacco science. If there's

arry Castleman, 1-3-02

Multi-Page

Jacques v. Keene

Page 280

Page 278

enough money on the table, there's going to be somebody publishing a medical article to make a certain kind of claim, but I don't think that there is any basis, any credible scientific basis for maintaining that you have to have asbestosis to be a candidate for occupational lung exposure to asbestos.

- Q. You are aware, Doctor, that there is a dispute in the published medical literature on that point, right?
- A. I realize there are people that publish opinion pieces along those lines, yes.
- Q. And those published articles indicating that the authors believed that the disease asbestosis was necessary before attributing lung cancer to asbestos exposure have appeared in peer-reviewed journals, right?
- MR. QUEENEY: Objection. Asked and answered.
- A. Yes. There have been a few such articles or opinion pieces published.

Q. The Dreessen study was conducted in the

- 2 textile plant, right?
- A. Yes.
- Q. It was not an Owens-Illinois plant,
- 5 right?
- A. Right.
 - Q. And Fleischer-Drinker eight years later
- 8 says that the character of the asbestos pipe
- 9 covering industry is substantially different than
- 10 the character of the textile industry working
- 11 with asbestos, right?
- 12 A. Right.
- 13 Q. And Fleischer-Drinker says that the
- 14 conclusions drawn from the textile industry
- 15 should not be applied to the pipe covering
- 16 industry, right?
- A. Well, they made some vague statements 17
- 18 along those lines, yes.
- Q. As a matter of fact, they say the
- character of asbestos pipe covering industry on
- 21 board naval vessels is such that the conclusions

Page 279

- Q. You talked about the Dreessen study in 1938, right?
 - A. Yes.
- Q. The Dreessen study was relied upon by industrial hygienists after it was written, right?
- A. I suppose it was some use to some industrial hygienists, yes.
- Q. The Dreessen report was published under the auspices of the United States Public Health Service, right?
 - A. Yes.
- O. It was the best available data at the time?
- MR. QUEENEY: Objection to the form of the term "best available data".
- A. It was maybe not the best available data, but it was a substantial edition to the available data at the time. As I mentioned, the Pennsylvania study had preceded it by several years and also had very important data.

- 1 drawn from other asbestos industries such as
- 2 textiles cannot be applied?
- A. Right. It is not really clear what
- 4 conclusions they are talking about.
- O. Those were their words?
- A. Right.
- Q. With respect to threshold limit values,
- 8 Doctor, you are aware that 43 states incorporated
- those TLVs into their state law?
- A. I don't know how many, but a number of
- 11 states did.
- Q. The substantial majority of states? 12
- A. I don't even know. It depends what
- 14 period of time you are talking about. Maybe you
- 15 mean by 1970 or so. Maybe by then. I don't
- 16 know. I have given some statistics in my book
- about how many states had done it by 1945. I don't know about what happened much after that.
- Q. The Federal Government also
- 20 incorporated the TLVs into the Walsh-Healey Act,
- 21 right?

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Jacques v. Keene Barry Castleman, 1-3-02

Page 282

A. Right. To try and put some kind of 1

- 2 occupational health standards for Government
- 3 contracting companies, employees.
- Q. And --
- A. That was before OSHA.
- Q. Right. And the Federal Government when
- 7 it passed the Walsh-Healey Act essentially
- 8 required that the TLV of five million particles
- per cubic foot for asbestos be followed on
- 10 federal contract jobs, right?
- A. Well, it basically said that that's 11
- 12 what should be done. What happened was probably
- 13 another story, but that's right. Another case of
- 14 publishing regulations in the Federal Register.
- Q. Federal Government passed that law and 15
- 16 said that TLV of five million particles should be
- 17 followed, right?
- A. Right. 18
- Q. And that was in the 1960s, right? 19
- A. Right. That was a regulation published 20
- 21 in 1960.

1 was the TLV Committee of the ACGIH. There

Page 284

- 2 weren't separate Governmental entities doing
- 3 this. They had basically ceded the territory by
- 4 all the state agencies who found it convenient to
- 5 not having to hire so many doctors and medical
- 6 people in order to take up this unpleasant job of
- 7 setting their own state exposure limits.
- Q. We agree then that no one published an
- 9 asbestos exposure limit lower than five million
- 10 particles per cubic foot prior to 1969, right?
- A. Right. 11
- MR. QUEENEY: Objection to the form of 12
- 13 the question with respect to publishing a TLV.
- 14 Vague.
- Q. Mr. Queeney asked you some questions 15
- 16 about a study done at Saranac that was
- 17 underwritten by Johns-Manville. Do you remember
- 18 those questions?
- A. Yeah. 19
- Q. That was the study you mentioned where 20
- 21 there had been findings of cancer but it wasn't

- Q. The TLV of five million particles per
- 2 cubic foot was not reduced until 1969; is that
- 3 right?
- A. Something like that.
- Q. No one prior to 1969 ever published a
- 6 TLV for asbestos that was lower than five million
- 7 particles per cubic foot?
- A. Well, it was only the ACGIH publishing
- 9 TLVs. No one published TLVs but them, and they
- 10 really weren't about to be importuned by people
- 11 criticizing the TLV. There were plenty of
- 12 criticisms at the Selikoff conference in 1964
- 13 that seemed to not meet with any kind of
- 14 immediate response from the TLV Committee.
- Q. Nobody ever published a guideline limit 15
- 16 for asbestos prior to 1969 that was lower than
- 17 five million particles per cubic foot, right?
- A. No one was supposed to have done this. 18
- 19 Other countries for the most part didn't set
- 20 occupational exposure limits the way we did in
- 21 the U.S., and the only game in town in the U.S.

- Page 285 1 published, right?
 - A. Right.
 - Q. That was an animal study, right?
 - A. There were actually two of them, one
 - 5 done and reported in 1943 and the other one first
 - 6 reported as an interim report in 1952.
 - Q. The animals in that experiment were
 - 8 exposed to raw asbestos, right?
 - A. Right.
 - 10 Q. That was different than the Kaylo
 - 11 experiments?
 - 12 A. Right.
 - Q. The animals in the Kaylo experiments 13
 - 14 were subjected to Kaylo dust, right?
 - A. Right. Which contained 15 or so 15
 - 16 percent of asbestos.
 - Q. You have no evidence or information 17
 - 18 that Owens-Illinois ever received a copy of
 - 19 Gardner's writeup of those raw asbestos studies;
 - 20 is that correct?
 - 21 A. That's right.

ase: 3:99-cv-00475-slc_Document.#: 43 Filed: 01/08/15 Page 73 of 75 **02 Jacques v. Keene** arry Castleman, 1-

- Q. You have no evidence or information 2 that the results with respect to cancer were ever 3 communicated to Owens-Illinois, right?
 - A. That's correct.
- Q. The Kaylo experiments that were done at 5 Saranac, there was no cancer that developed in 7 any of those animals, right?
 - A. I believe that's right.
- Q. There's no evidence or information that) Owens-Illinois had anything to do with the raw 1 asbestos studies at Saranac, correct?
- I think we pretty well covered that, 3 that they were not among the sponsoring 1 companies.
- Q. You mentioned that Drinker was a 5 consultant to the oil industry while he was 7 working in the public health field, right?
- A. Well, he was on the TLV Committee.
- While he was on the TLV Committee,
-) being a consultant in the industry in itself
- t doesn't make a person corrupt, right?

Page 286

1 years, and then the Italians cited that Fleischer

- 2 and his co-workers were the discoverers of
- 3 asbestos hazards and shipyard workers, so, no, I
- 4 don't think there was criticism of it published.
- 5 It was pretty much ignored from what I can tell.
- The Saranac studies that were done for
- 7 Owens-Illinois were not designed to determine
- 8 what a safe level of exposure would be, right?
- A. Right. They only tested one level of
- 10 exposure, and they got plenty of disease at that
- 11 level of exposure. You can't extrapolate what
- 12 level would be safe for guinea pigs, for example.
- Q. And the level of exposure was massive, 13 14 right?
- 15 A. It was high.
- Q. It was over a hundred million particles
- 17 per cubic foot, right?
- A. Right. 18
- 19 Q. And the guinea pigs were exposed for
- 20 their entire lifetime?
- A. I think so. 21

Page 287

Page 289

Page 288

- A. Correct.
- Q. OI was not a member of the ATI, right?
 - No, they were not.
- Q. I'm sorry. That is the Asbestos
- 5 Textile Institute, right?
- A. Right.
 - Q. OI was not a member of the QAMA, right?
- A. Right.
- O. You have no information that Hemeon) ever communicated the results of his unpublished paper to Owens-Illinois; is that right?

MR. QUEENEY: You mean directly?

- A. That's right.
- Q. You are aware of no published criticism
- 5 of the Fleischer-Drinker study until Selikoff's
- 5 results in 1964 and '5, right?
- MR. QUEENEY: Objection to the form of 3 the question. What do you mean by criticism? A) question as to the legitimacy of some portion of
- A. It just wasn't cited by anybody for 10

- Q. The experiment was designed to discover
- 2 whether or not Kaylo dust was inert, right?
- A. Well, whether it was harmful. They
- 4 weren't expecting to discover that it was inert.
- 5 Had silica had asbestos in it, it would have been
- 6 quite a discovery to find that it was inert.
- Q. In fact, in two of the interim reports
- 8 they propertied that it wasn't, correct?
- A. Initially they didn't produce any
- 10 reactions, but they were dealing with dusts that
- 11 had a latency period, a well established delay
- 12 onset effect. You know, it is like jumping off
- 13 the top of a 30-story building. You know, for
- 14 the first three floors you don't feel a thing.
- Q. Is it your testimony, Doctor, that the
- 16 Saranac Lab did not communicate to Owens-Illinois
- 17 that it appeared that the Kaylo dust was in fact
- 18 inert?
- 19 MR. QUEENEY: Objection to the form of
- 20 the question.
- 21 A. I think they used language to that

) it?

Case: 3:99-cv-00475-slc Document #: 43 Filed: 01/08/15 Page 74 of 75 Multi-Page Multi-Page Barry Castleman, 1-3-02

Page 290 1 effect in the early reports, but they were just 2 early reports. 3 Q. Do you know whether Saranac expressed 4 an opinion as to whether or not when the 5 experiments were completed they would find that 6 the Kaylo was in fact inert? 7 A. They may have said something about it 8 on the early reports. It doesn't really matter 9 what they said before 1948. After 1948 the 10 product came up spades, and they repeatedly told 11 that to Owens-Illinois. 12 Q. Doctor, it's true that the Saranac 13 experiments on Kaylo dust established that the 14 silica dust had lost its capacity to irritate 15 tissue, right? 1 with more than 20, and we don't know how 2 the 51 had more than 20. Simply that inform 2 wasn't disclosed. 4 Q. A hundred percent of the three peoples over 20 years did in fact have asbestosis? 6 MR. FISCHER: Objection to form. 7 Foundation. 8 A. Another way of looking at it, I suppose. 10 MR. QUEENEY: Thank you. 11 (Examination concluded 4:41 p.m.) 12	rmation le
2 early reports. 3 Q. Do you know whether Saranac expressed 4 an opinion as to whether or not when the 5 experiments were completed they would find that 6 the Kaylo was in fact inert? 7 A. They may have said something about it 8 on the early reports. It doesn't really matter 9 what they said before 1948. After 1948 the 10 product came up spades, and they repeatedly told 11 that to Owens-Illinois. 12 Q. Doctor, it's true that the Saranac 13 experiments on Kaylo dust established that the 14 silica dust had lost its capacity to irritate 15 tissue, right? 16 A. Well, they didn't find most most of 2 the 51 had more than 20. Simply that inform 3 wasn't disclosed. 4 Q. A hundred percent of the three people 5 over 20 years did in fact have asbestosis? 6 MR. FISCHER: Objection to form. 7 Foundation. 8 A. Another way of looking at it, I 9 suppose. 10 MR. QUEENEY: Thank you. 11 (Examination concluded 4:41 p.m.) 12	rmation le
3 Q. Do you know whether Saranac expressed 4 an opinion as to whether or not when the 5 experiments were completed they would find that 6 the Kaylo was in fact inert? 6 MR. FISCHER: Objection to form. 7 A. They may have said something about it 8 on the early reports. It doesn't really matter 9 what they said before 1948. After 1948 the 10 product came up spades, and they repeatedly told 11 that to Owens-Illinois. 12 Q. Doctor, it's true that the Saranac 13 experiments on Kaylo dust established that the 14 silica dust had lost its capacity to irritate 15 tissue, right? 16 A. Well, they didn't find most most of 3 wasn't disclosed. 4 Q. A hundred percent of the three people over 20 years did in fact have asbestosis? 6 MR. FISCHER: Objection to form. 7 Foundation. 8 A. Another way of looking at it, I 9 suppose. 10 MR. QUEENEY: Thank you. 11 (Examination concluded 4:41 p.m 12	le
3 Q. Do you know whether Saranac expressed 4 an opinion as to whether or not when the 5 experiments were completed they would find that 6 the Kaylo was in fact inert? 6 MR. FISCHER: Objection to form. 7 A. They may have said something about it 8 on the early reports. It doesn't really matter 9 what they said before 1948. After 1948 the 10 product came up spades, and they repeatedly told 11 that to Owens-Illinois. 12 Q. Doctor, it's true that the Saranac 13 experiments on Kaylo dust established that the 14 silica dust had lost its capacity to irritate 15 tissue, right? 16 A. Well, they didn't find most most of 3 wasn't disclosed. 4 Q. A hundred percent of the three people over 20 years did in fact have asbestosis? 6 MR. FISCHER: Objection to form. 7 Foundation. 8 A. Another way of looking at it, I 9 suppose. 10 MR. QUEENEY: Thank you. 11 (Examination concluded 4:41 p.m 12	le
4 an opinion as to whether or not when the 5 experiments were completed they would find that 6 the Kaylo was in fact inert? 6 A. They may have said something about it 8 on the early reports. It doesn't really matter 9 what they said before 1948. After 1948 the 10 product came up spades, and they repeatedly told 11 that to Owens-Illinois. 12 Q. Doctor, it's true that the Saranac 13 experiments on Kaylo dust established that the 14 silica dust had lost its capacity to irritate 15 tissue, right? 16 A. Well, they didn't find most most of 4 Q. A hundred percent of the three people over 20 years did in fact have asbestosis? 6 MR. FISCHER: Objection to form. 7 Foundation. 8 A. Another way of looking at it, I 9 suppose. 10 MR. QUEENEY: Thank you. 11 (Examination concluded 4:41 p.m.) 12	
5 experiments were completed they would find that 6 the Kaylo was in fact inert? 6 the Kaylo was in fact inert? 7 A. They may have said something about it 8 on the early reports. It doesn't really matter 9 what they said before 1948. After 1948 the 10 product came up spades, and they repeatedly told 11 that to Owens-Illinois. 12 Q. Doctor, it's true that the Saranac 13 experiments on Kaylo dust established that the 14 silica dust had lost its capacity to irritate 15 tissue, right? 16 A. Well, they didn't find most most of 5 over 20 years did in fact have asbestosis? 6 MR. FISCHER: Objection to form. 7 Foundation. 8 A. Another way of looking at it, I 9 suppose. 10 MR. QUEENEY: Thank you. 11 (Examination concluded 4:41 p.m.) 12	
6 the Kaylo was in fact inert? 7 A. They may have said something about it 8 on the early reports. It doesn't really matter 9 what they said before 1948. After 1948 the 10 product came up spades, and they repeatedly told 11 that to Owens-Illinois. 12 Q. Doctor, it's true that the Saranac 13 experiments on Kaylo dust established that the 14 silica dust had lost its capacity to irritate 15 tissue, right? 16 A. Well, they didn't find most most of 6 MR. FISCHER: Objection to form. 7 Foundation. 8 A. Another way of looking at it, I 9 suppose. 10 MR. QUEENEY: Thank you. 11 (Examination concluded 4:41 p.m.) 12	.)
7 A. They may have said something about it 8 on the early reports. It doesn't really matter 9 what they said before 1948. After 1948 the 10 product came up spades, and they repeatedly told 11 that to Owens-Illinois. 12 Q. Doctor, it's true that the Saranac 13 experiments on Kaylo dust established that the 14 silica dust had lost its capacity to irritate 15 tissue, right? 16 A. Well, they didn't find most most of 7 Foundation. 8 A. Another way of looking at it, I 9 suppose. 10 MR. QUEENEY: Thank you. 11 (Examination concluded 4:41 p.m.) 12	.)
9 what they said before 1948. After 1948 the 10 product came up spades, and they repeatedly told 11 that to Owens-Illinois. 12 Q. Doctor, it's true that the Saranac 13 experiments on Kaylo dust established that the 14 silica dust had lost its capacity to irritate 15 tissue, right? 16 A. Well, they didn't find most most of 19 suppose. 10 MR. QUEENEY: Thank you. 11 (Examination concluded 4:41 p.m.) 12	.)
9 what they said before 1948. After 1948 the 10 product came up spades, and they repeatedly told 11 that to Owens-Illinois. 12 Q. Doctor, it's true that the Saranac 13 experiments on Kaylo dust established that the 14 silica dust had lost its capacity to irritate 15 tissue, right? 16 A. Well, they didn't find most most of 19 suppose. 10 MR. QUEENEY: Thank you. 11 (Examination concluded 4:41 p.m.) 12	.)
10 product came up spades, and they repeatedly told 11 that to Owens-Illinois. 12 Q. Doctor, it's true that the Saranac 13 experiments on Kaylo dust established that the 14 silica dust had lost its capacity to irritate 15 tissue, right? 16 A. Well, they didn't find most most of 17 MR. QUEENEY: Thank you. 18 (Examination concluded 4:41 p.m.) 19	.)
11 that to Owens-Illinois. 12 Q. Doctor, it's true that the Saranac 13 experiments on Kaylo dust established that the 14 silica dust had lost its capacity to irritate 15 tissue, right? 16 A. Well, they didn't find most most of 17 (Examination concluded 4:41 p.m.) 18 12	.)
12 Q. Doctor, it's true that the Saranac 13 experiments on Kaylo dust established that the 14 silica dust had lost its capacity to irritate 15 tissue, right? 16 A. Well, they didn't find most most of 17	
14 silica dust had lost its capacity to irritate 15 tissue, right? 16 A. Well, they didn't find most most of 16	
15 tissue, right? 16 A. Well, they didn't find most most of 15 16	
16 A. Well, they didn't find most most of	
17 the effect they found was from the asbestos, not 17	
18 from the silica, so I guess maybe that's true. I	
19 don't recall exactly what they said about silica.	
20 MR. FISCHER: That's all I have for 20	
21 you, Doctor.	
Page 291	Page 293
1 EXAMINATION BY MR. QUEENEY: 1 INDEX OF EXAMINATION	1 460 275
2 Q. One simple question. You referred to a 2 BY MR. FISCHER	270
3 conclusion number 4, and there's two parts of 3 BY MR. QUEENEY234,	291
4 conclusion number 4 that you reference.	
5 A. We read the whole thing in. 5 INDEX OF EXHIBITS	
6 Q. Can you explain the distinction between 6 No. 1, Report of Barry I. Castleman	25
7 the first part and the last part of conclusion 7 No. 2, Fax Transmittal to Fischer from	
8 number 4? 8 Queeney with 1/2/02 Addendum	. 60
9 MR. FISCHER: Objection to the form. 9 No. 3, Curriculum Vitae of Castleman	
10 A. The first part he said we found 10	
11 asbestosis in people with more than 20 years 11	
12 exposure to these products, and then he says at 12 REQUESTED INFORMATION	67
13 the end of the sentence it doesn't seem to be	
14 that big of a problem, and those two, it seems to	
15 me, are internally inconsistent. The sentence is	
15 me, are internally inconsistent. The sentence is 16 internally inconsistent.	
	İ
16 internally inconsistent.	
16 internally inconsistent. 17 Q. How many people did they study with 16 17	
16 internally inconsistent. 17 Q. How many people did they study with 18 more than 20 years exposure? 18	

Page 294
STATE OF MARYLAND SS:
I, DEBORAH C. D. SHUMAKER, a Notary Public
3 of the State of Maryland, do hereby certify that
the within named, personally appeared before me
5 at the time and place herein set out, and after
5 having been duly sworn by me, was interrogated by
7 counsel.
I further certify that the examination was
recorded stenographically by me and this
) transcript is a true record of the proceedings.
I further certify that the stipulations
2 contained herein were entered into by counsel in
3 my presence.
I further certify that I am not of counsel
5 to any of the parties, nor an employee of
5 counsel, nor related to any of the parties, nor in
7 any way interested in the outcome of this action.
3 As witness my hand and notarial seal this
A day of ^MONTH, 2002.
) My commission expires
July 1, 2002 Notary Public